



Your Personal Exams Guide



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SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

IBPS PO Mains – Memory Based Paper (26th Nov 2022)

Total Time: 3 Hour

Total Marks: 200

Instructions

SI No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks	Sectional Timing
1	Reasoning & Computer Aptitude	45	90	0.5	2	60 Min
2	General Awareness	40	40	0.25	1	35 Min
3	English Language	35	70	0.5	2	40 Min
4	Data Analysis & Interpretation	35	70	0.5	2	45 Min

- 1.) A total of 180 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

Reasoning & Computer Aptitude

1. **Direction:** Read the following information and answer the given questions:

(+2, -0.5)

Ten persons Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni are born in five different months viz., January, August, April, June and December in the same year. No two persons whose names start with consecutive alphabet are neighbors. Two persons were born in one month such that ten persons were born in five months. They all are born in different dates viz.; each month consist of one odd numbered date and one even numbered date. The odd numbered date ranges between 1 - 15 and even numbered date ranges between 16 - 30. Each one likes different fruits namely Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums but not necessary in the same order.

Anu born in one of the months, which does not have 30 days. There are only two persons were born between Anu and the one who likes Grapes. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi. Fath and the one who likes Kiwi are born in the same month. Anu was born in smallest odd numbered date. The one who likes Guava born in 18th of August. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes. Fath and Anu do not like Mango. There are four persons were born between Imu and Cathy, who was born in April. Jeni was born in a date which is divisible by both 7 and 4. The one who likes Strawberry does not born in same month as the one who likes Plums. Fath was born 200 days before Guna and Dani was born 3 days after Fath. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna. Hari does not like Banana and is elder than the one who likes Mango. Guna does not born in the month which has 30 days. The one who likes Pear does not born in odd numbered date. More than three persons were born between Cathy and the one who likes Pear. The one who likes Papaya does not born in January and does not born in the same month as Guna was born. Guna and Hari are born in same dates. The one who likes Strawberry was born before Jeni and not the eldest person. Hari does not born immediately after Anu. Cathy was born in smallest two-digit prime number. The one who like pear was born in largest possible even number. Emi and Banu were born on possible two-digit odd prime number.

If Kiwi and Plum interchange their position, then who was born immediately after the one who likes Plum?

- a. Guna
- b. Anu
- c. Imu
- d. Dani
- e. Cathy

2. **Direction:** Read the following information and answer the given questions:

(+2, -0.5)

Ten persons Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni are born in five different months viz., January, August, April, June and December in the same year. No two persons whose names start with consecutive alphabet are neighbors. Two persons were born in one month such that ten persons were born in five months. They all are born in different dates viz.; each month consist of one odd numbered date and one even numbered date. The odd numbered date ranges between 1 – 15 and even numbered date ranges between 16 – 30. Each one likes different fruits namely Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums but not necessary in the same order.

Anu born in one of the months, which does not have 30 days. There are only two persons were born between Anu and the one who likes Grapes. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi. Fath and the one who likes Kiwi are born in the same month. Anu was born in smallest odd numbered date. The one who likes Guava born in 18th of August. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes. Fath and Anu do not like Mango. There are four persons were born between Imu and Cathy, who was born in April. Jeni was born in a date which is divisible by both 7 and 4. The one who likes Strawberry does not born in same month as the one who likes Plums. Fath was born 200 days before Guna and Dani was born 3 days after Fath. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna. Hari does not like Banana and is elder than the one who likes Mango. Guna does not born in the month which has 30 days. The one who likes Pear does not born in odd numbered date. More than three persons were born between Cathy and the one who likes Pear. The one who likes Papaya

does not born in January and does not born in the same month as Guna was born. Guna and Hari are born in same dates. The one who likes Strawberry was born before Jeni and not the eldest person. Hari does not born immediately after Anu. Cathy was born in smallest two-digit prime number. The one who like pear was born in largest possible even number. Emi and Banu were born on possible two-digit odd prime number.

Which of the following is true about Hari?

- I. He was born in the month having even numbered days.
- II. Four people were born between Hari and Anu.
- III. He likes Kiwi.

- a. Only I
- b. Only II
- c. Only III
- d. Both I and II
- e. Both II and III

3. Direction: Read the following information and answer the given questions: (+2, -0.5)

Ten persons Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni are born in five different months viz., January, August, April, June and December in the same year. No two persons whose names start with consecutive alphabet are neighbors. Two persons were born in one month such that ten persons were born in five months. They all are born in different dates viz.; each month consist of one odd numbered date and one even numbered date. The odd numbered date ranges between 1 - 15 and even numbered date ranges between 16 - 30. Each one likes different fruits namely Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums but not necessary in the same order.

Anu born in one of the months, which does not have 30 days. There are only two persons were born between Anu and the one who likes Grapes. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the

year. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi. Fath and the one who likes Kiwi are born in the same month. Anu was born in smallest odd numbered date. The one who likes Guava born in 18th of August. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes. Fath and Anu do not like Mango. There are four persons were born between Imu and Cathy, who was born in April. Jeni was born in a date which is divisible by both 7 and 4. The one who likes Strawberry does not born in same month as the one who likes Plums. Fath was born 200 days before Guna and Dani was born 3 days after Fath. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna. Hari does not like Banana and is elder than the one who likes Mango. Guna does not born in the month which has 30 days. The one who likes Pear does not born in odd numbered date. More than three persons were born between Cathy and the one who likes Pear. The one who likes Papaya does not born in January and does not born in the same month as Guna was born. Guna and Hari are born in same dates. The one who likes Strawberry was born before Jeni and not the eldest person. Hari does not born immediately after Anu. Cathy was born in smallest two-digit prime number. The one who like pear was born in largest possible even number. Emi and Banu were born on possible two-digit odd prime number.

Who likes Grapes?

- a. The one who born on April 28
- b. The one who born immediately after the one who likes Banana
- c. The one who born before Fathi
- d. Only I and III
- e. All I, II and III

4. **Direction:** Read the following information and answer the given questions:

(+2, -0.5)

Ten persons Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni are born in five different months viz., January, August, April, June and December in the same year. No two persons whose names start with consecutive alphabet are neighbors. Two persons were born in one month such that ten persons were born in five

months. They all are born in different dates viz.; each month consist of one odd numbered date and one even numbered date. The odd numbered date ranges between 1 - 15 and even numbered date ranges between 16 - 30. Each one likes different fruits namely Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums but not necessary in the same order.

Anu born in one of the months, which does not have 30 days. There are only two persons were born between Anu and the one who likes Grapes. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi. Fath and the one who likes Kiwi are born in the same month. Anu was born in smallest odd numbered date. The one who likes Guava born in 18th of August. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes. Fath and Anu do not like Mango. There are four persons were born between Imu and Cathy, who was born in April. Jeni was born in a date which is divisible by both 7 and 4. The one who likes Strawberry does not born in same month as the one who likes Plums. Fath was born 200 days before Guna and Dani was born 3 days after Fath. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna. Hari does not like Banana and is elder than the one who likes Mango. Guna does not born in the month which has 30 days. The one who likes Pear does not born in odd numbered date. More than three persons were born between Cathy and the one who likes Pear. The one who likes Papaya does not born in January and does not born in the same month as Guna was born. Guna and Hari are born in same dates. The one who likes Strawberry was born before Jeni and not the eldest person. Hari does not born immediately after Anu. Cathy was born in smallest two-digit prime number. The one who like pear was born in largest possible even number. Emi and Banu were born on possible two-digit odd prime number.

The one who likes plum was born on

- a. December 11
- b. December 13
- c. January 11
- d. January 09

e. Cannot be determined

5. Direction: Study the following information carefully and answer the given questions. (+2, -0.5)

Two buses i.e., bus P and bus Q start their journey from a common depot. Both buses complete their individual journey. Bus P moved 7 km towards south and reached stoppage 1. Then turned right and moved 8 km and reached stoppage 2. From there Bus P turned right and covered 9 km to reach stoppage 3. Then it turned to its left and covered 5 km to reach stoppage 4 and finally, it took a left turn and went 4 km to reach stoppage 5.

Bus Q went 6 km to east and reached stoppage 6. Then it turned to its right and moved 3 km to reach stoppage 7. It travelled 13 km towards left and went to stoppage 8. From there bus Q turned left and covered 8 km to reach stoppage 9. Finally, it moves towards to its left and went 21 km to reach stoppage 10.

Now these stoppages are assigned names according to the below given conditions:

'W' is assigned to the first stoppage if distance between the consecutive stoppages is a prime number.

'X' is assigned to the stoppage which is in north west or south west direction of the depot.

'Y' is assigned to the stoppage which is in north east or south east direction of the depot.

'Z' is assigned to the stoppage if distance between the stoppage and depot is even number.

Note: Multiple names can be assigned to a single stoppage.

Bus X starts journey from depot and goes 5 meter south and takes a left turn and travel 10 meter. Then it takes a left turn and reaches somewhere between stoppage 9 and 10. What will be the distance from that point to stoppage 9?

- a. 16 km
- b. 9 km
- c. 10 km

d. 13 km

e. 15 km

6. Direction: Study the following information carefully and answer the given questions. **(+2, -0.5)**

Two buses i.e., bus P and bus Q start their journey from a common depot. Both buses complete their individual journey. Bus P moved 7 km towards south and reached stoppage 1. Then turned right and moved 8 km and reached stoppage 2. From there Bus P turned right and covered 9 km to reach stoppage 3. Then it turned to its left and covered 5 km to reach stoppage 4 and finally, it took a left turn and went 4 km to reach stoppage 5.

Bus Q went 6 km to east and reached stoppage 6. Then it turned to its right and moved 3 km to reach stoppage 7. It travelled 13 km towards left and went to stoppage 8. From there bus Q turned left and covered 8 km to reach stoppage 9. Finally, it moves towards to its left and went 21 km to reach stoppage 10.

Now these stoppages are assigned names according to the below given conditions:

'W' is assigned to the first stoppage if distance between the consecutive stoppages is a prime number.

'X' is assigned to the stoppage which is in north west or south west direction of the depot.

'Y' is assigned to the stoppage which is in north east or south east direction of the depot.

'Z' is assigned to the stoppage if distance between the stoppage and depot is even number.

Note: Multiple names can be assigned to a single stoppage.

Find the odd one out.

- a. Stoppage 5 – Stoppage 10
- b. Stoppage 3 – Stoppage 9
- c. Stoppage 2 – Stoppage 6

d. Stoppage 1 – Stoppage 10

e. Stoppage 5 – Stoppage 6

7. **Direction:** Study the following information carefully and answer the given questions. (+2, -0.5)

Two buses i.e., bus P and bus Q start their journey from a common depot. Both buses complete their individual journey. Bus P moved 7 km towards south and reached stoppage 1. Then turned right and moved 8 km and reached stoppage 2. From there Bus P turned right and covered 9 km to reach stoppage 3. Then it turned to its left and covered 5 km to reach stoppage 4 and finally, it took a left turn and went 4 km to reach stoppage 5.

Bus Q went 6 km to east and reached stoppage 6. Then it turned to its right and moved 3 km to reach stoppage 7. It travelled 13 km towards left and went to stoppage 8. From there bus Q turned left and covered 8 km to reach stoppage 9. Finally, it moves towards to its left and went 21 km to reach stoppage 10.

Now these stoppages are assigned names according to the below given conditions:

'W' is assigned to the first stoppage if distance between the consecutive stoppages is a prime number.

'X' is assigned to the stoppage which is in north west or south west direction of the depot.

'Y' is assigned to the stoppage which is in north east or south east direction of the depot.

'Z' is assigned to the stoppage if distance between the stoppage and depot is even number.

Note: Multiple names can be assigned to a single stoppage.

which of the following stoppage assigned maximum names?

a. Stoppage 3

b. Stoppage 8

c. Stoppage 9

d. Stoppage 7

e. Stoppage 1

8. **Direction:** Study the following information carefully and answer the given questions. (+2, -0.5)

21 persons work in a bank at a different post. Posts are in decreasing order i.e. ED, DGM, AGM, Manager, AM and Clerk. It is known that on any post the number of person posted is one more than the number of person posted in the immediate senior post. For example: If 4 person works as AM then 5 person works as Clerk. E, H and D work at the same post. S is senior to V and C. Neither X nor Q is a manager. P, L, M and W work at the same post. V is just senior to X. C is senior to A. U and T are senior to L. R is senior to T but junior to F and G. V is just junior to N. R and N do not work at the same post. Q is senior to W. B is senior to O. C and Q works at the same post. A does not work as clerk, P does not work as AM and T does not work as AGM. S is senior to R but junior to G. Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order.
2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels).
3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing.
4. Rest will go to the Legal department.

Find the odd one out:

- a. A
- b. D
- c. E
- d. F

e. H

9. **Direction:** Study the following information carefully and answer the given questions. (+2, -0.5)

21 persons work in a bank at a different post. Posts are in decreasing order i.e. ED, DGM, AGM, Manager, AM and Clerk. It is known that on any post the number of person posted is one more than the number of person posted in the immediate senior post. For example: If 4 person works as AM then 5 person works as Clerk. E, H and D work at the same post. S is senior to V and C. Neither X nor Q is a manager. P, L, M and W work at the same post. V is just senior to X. C is senior to A. U and T are senior to L. R is senior to T but junior to F and G. V is just junior to N. R and N do not work at the same post. Q is senior to W. B is senior to O. C and Q works at the same post. A does not work as clerk, P does not work as AM and T does not work as AGM. S is senior to R but junior to G. Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order.
2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels).
3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing.
4. Rest will go to the Legal department.

Which of the following is true?

- a. Atleast two of the clerks is transferred to legal department.
- b. Atleast one of the AMs is transferred to marketing department.
- c. Atleast one of the AGMs is transferred to HR department.
- d. At least one of the DGMs is transferred to marketing department.
- e. Atleast one of the Managers is transferred to HR department.

10. **Direction:** Study the following information carefully and answer the given questions.

(+2, -0.5)

21 persons work in a bank at a different post. Posts are in decreasing order i.e. ED, DGM, AGM, Manager, AM and Clerk. It is known that on any post the number of person posted is one more than the number of person posted in the immediate senior post. For example: If 4 person works as AM then 5 person works as Clerk. E, H and D work at the same post. S is senior to V and C. Neither X nor Q is a manager. P, L, M and W work at the same post. V is just senior to X. C is senior to A. U and T are senior to L. R is senior to T but junior to F and G. V is just junior to N. R and N do not work at the same post. Q is senior to W. B is senior to O. C and Q works at the same post. A does not work as clerk, P does not work as AM and T does not work as AGM. S is senior to R but junior to G. Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order.
2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels).
3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing.
4. Rest will go to the Legal department.

Who among the following is not the manager?

- a. B
- b. C
- c. N
- d. T
- e. U

11. **Direction:** Study the following information carefully and answer the given questions. (+2, -0.5)

21 persons work in a bank at a different post. Posts are in decreasing order i.e. ED, DGM, AGM, Manager, AM and Clerk. It is known that on any post the number of person posted is one more than the number of person posted in the immediate senior post. For example: If 4 person works as AM then 5 person works as Clerk. E, H and D work at the same post. S is senior to V and C. Neither X nor Q is a manager. P, L, M and W work at the same post. V is just senior to X. C is senior to A. U and T are senior to L. R is senior to T but junior to F and G. V is just junior to N. R and N do not work at the same post. Q is senior to W. B is senior to O. C and Q works at the same post. A does not work as clerk, P does not work as AM and T does not work as AGM. S is senior to R but junior to G. Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order.
2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels).
3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing.
4. Rest will go to the Legal department.

In which department is U transferred to?

- a. HR
- b. Marketing
- c. Legal
- d. None of these, U will be the leader of Legal.
- e. None of these, U will be the leader of HR.

12. **Directions:** Read the following information carefully and answer the questions given below.

(+2, -0.5)

In a certain code language,

All &π^	People #φ*	Are &0+	Good #φ+
Some &0+	People &π*	Call &π+	There &π+
Equal #π*	Boys &π\$	Play &π!	There &π+
We &©+	Are #φ*	All #π*	Equal #φ+

Choose a word whose code is similar to 'Some'?

- a. Small
- b. Pass
- c. Long
- d. Tale
- e. None of these

13. **Directions:** Read the following information carefully and answer the questions given below.

(+2, -0.5)

In a certain code language,

All &π^	People #φ*	Are &0+	Good #φ+
Some &0+	People &π*	Call &π+	There &∞+
Equal #∞*	Boys &π\$	Play &π!	There &∞+
We &©+	Are #φ*	All #∞*	Equal #φ+

What is the possible code for 'we are going'?

- a. &©+ #Ψ+ &∞*
- b. &©+ #Ψ+ &∞+
- c. &©+ #Ψ+ &∞~
- d. &©+ #Ψ+ &∞\$
- e. &©+ #Ψ+ &∞^

14. **Directions:** Read the following information carefully and answer the questions given below. (+2, -0.5)

In a certain code language,

All &π^	People #φ*	Are &0+	Good #φ+
Some &0+	People &π*	Call &π+	There &∞+
Equal #∞*	Boys &π\$	Play &π!	There &∞+
We &©+	Are #φ*	All #∞*	Equal #φ+

What is the code for 'All'?

- a. # Ψ^*
- b. # Ψ^+
- c. & θ^+
- d. & $\pi^{\wedge}$
- e. Either 1 or 2

15. Direction: Read the given information carefully and answer the following questions: (+2, -0.5)

Statement: A cotton dress manufacturing company Z has planned to import the materials for its production from Country A which is a leading cotton producer in the world and the top exporter of Cotton materials. The manufacturing company Z has ordered material in huge quantities worth \$45 million because of the increasing demand for cotton-based dress material in its company.

Which among the following option(s) will weaken the given statement?

- i) Company Z has earned more profit this year when compared to the previous two years.
- ii) People do not like to wear cotton dresses in the winter season.
- iii) Country A took most of the orders for the cotton materials when compared to Country B.

- a. Only I
- b. Only II and III
- c. Only III
- d. Only I and III
- e. Only II

16. **Direction:** Study the information given carefully and answer the question given below. (+1, -0.25)

Ten people A, B, C, D, E, L, M, N, O, and P are sitting around a circular table but not necessarily in the same order. Five of them are facing inside while others are facing outside. No two persons, whose names start with consecutive alphabets sit adjacent to each other.

E sits immediate right of the one who faces D. B does not face L. One person sits between C and M. Immediate neighbours of L are facing outside. Two persons sit between B and D. O faces the same direction as B. Both D and N face opposite directions as P. E sits fourth to the right of L. A is an immediate neighbour of C, who faces outside. One person sits between E and A. Both immediate neighbours of A face opposite directions to each other. Neither P nor O sits adjacent to B. E sits third to the left of P. A does not sit second to the right of E.

What is the position of P with respect to C?

- a. Fifth to the right
- b. Fourth to the right
- c. Second to the left
- d. Second to the right
- e. Third to the left

17. **Direction:** Study the information given carefully and answer the question given below. (+1, -0.25)

Ten people A, B, C, D, E, L, M, N, O, and P are sitting around a circular table but not necessarily in the same order. Five of them are facing inside while others are facing outside. No two persons, whose names start with consecutive alphabets sit adjacent to each other.

E sits immediate right of the one who faces D. B does not face L. One person sits between C and M. Immediate neighbours of L are facing outside. Two persons sit between B and D. O faces the same direction as B. Both D and N face opposite

directions as P. E sits fourth to the right of L. A is an immediate neighbour of C, who faces outside. One person sits between E and A. Both immediate neighbours of A face opposite directions to each other. Neither P nor O sits adjacent to B. E sits third to the left of P. A does not sit second to the right of E.

Who sits opposite to D?

- a. C
- b. M
- c. A
- d. E
- e. L

18. **Direction:** Study the following information carefully and answer the given questions.

(+1, -0.25)

Nine people A, B, C, D, E, F, G, H, and J live in a nine-storey building such that the bottommost floor is numbered as 1 and the topmost floor is numbered as 9 but not necessarily in the same order. They can speak nine different languages – Assamese, Bengali, Gujrati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada but not necessarily in the same order.

H cannot speak Kannada. F lives above H. Two persons live below G. The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. G speaks either Telegu or Hindi. E's floor number is half of C's floor number. One person lives between G and the one, who speaks Sanskrit. D lives immediately above J. D neither speaks Telegu nor Kannada. One person lives between A and the one, who can speak Gujrati. The one, who can speak Assamese does not live on a prime numbered floor. C does not live immediately above or immediately below G's floor. The one, who speaks English lives three floors above J. One person lives between C and B, who can speak Odia. The one, who can speak Assamese lives immediately above the, one who can speak Bengali.

Who lives immediately above the one, who can speak Sanskrit?

- a. H
- b. E
- c. F
- d. A
- e. B

19. **Direction:** Study the following information carefully and answer the given questions.

(+1, -0.25)

Nine people A, B, C, D, E, F, G, H, and J live in a nine-storey building such that the bottommost floor is numbered as 1 and the topmost floor is numbered as 9 but not necessarily in the same order. They can speak nine different languages – Assamese, Bengali, Gujarati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada but not necessarily in the same order.

H cannot speak Kannada. F lives above H. Two persons live below G. The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. G speaks either Telegu or Hindi. E's floor number is half of C's floor number. One person lives between G and the one, who speaks Sanskrit. D lives immediately above J. D neither speaks Telegu nor Kannada. One person lives between A and the one, who can speak Gujarati. The one, who can speak Assamese does not live on a prime numbered floor. C does not live immediately above or immediately below G's floor. The one, who speaks English lives three floors above J. One person lives between C and B, who can speak Odia. The one, who can speak Assamese lives immediately above the, one who can speak Bengali.

Which of the following combination is correct?

- a. 3rd floor – G – Hindi
- b. 1st floor – D – Telegu
- c. 5th floor – H – Kannada
- d. 7th floor – F – Gujarati

e. 9th floor – F – Assamese

20. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

Nine people A, B, C, D, E, F, G, H, and J live in a nine-storey building such that the bottommost floor is numbered as 1 and the topmost floor is numbered as 9 but not necessarily in the same order. They can speak nine different languages – Assamese, Bengali, Gujarati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada but not necessarily in the same order.

H cannot speak Kannada. F lives above H. Two persons live below G. The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. G speaks either Telegu or Hindi. E's floor number is half of C's floor number. One person lives between G and the one, who speaks Sanskrit. D lives immediately above J. D neither speaks Telegu nor Kannada. One person lives between A and the one, who can speak Gujarati. The one, who can speak Assamese does not live on a prime numbered floor. C does not live immediately above or immediately below G's floor. The one, who speaks English lives three floors above J. One person lives between C and B, who can speak Odia. The one, who can speak Assamese lives immediately above the, one who can speak Bengali.

How many persons live between A and C?

- a. Five
- b. Four
- c. Three
- d. Two
- e. One

21. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

Nine people A, B, C, D, E, F, G, H, and J live in a nine-storey building such that the bottommost floor is numbered as 1 and the topmost floor is numbered as 9 but not necessarily in the same order. They can speak nine different languages – Assamese, Bengali, Gujrati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada but not necessarily in the same order.

H cannot speak Kannada. F lives above H. Two persons live below G. The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. G speaks either Telegu or Hindi. E's floor number is half of C's floor number. One person lives between G and the one, who speaks Sanskrit. D lives immediately above J. D neither speaks Telegu nor Kannada. One person lives between A and the one, who can speak Gujrati. The one, who can speak Assamese does not live on a prime numbered floor. C does not live immediately above or immediately below G's floor. The one, who speaks English lives three floors above J. One person lives between C and B, who can speak Odia. The one, who can speak Assamese lives immediately above the, one who can speak Bengali.

Who among the following persons speaks Gujrati?

- a. H
- b. F
- c. D
- d. J
- e. E

22. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

I) In a certain code language, "Holidays are fun" is coded as "pnj kol sip" and "winter holidays coming" is coded as "kol bit pop" and "Winter is cold" is coded as "bit fog sap".

II) In a certain code language, "They are coming" is coded as "pop top gig" and "How are they" is coded as "top sun gig".

What is the code for "Coming"?

- a. Only I is sufficient
- b. Only II is sufficient
- c. Both are not sufficient to answer the question
- d. Both are necessary to answer the question
- e. Either I or II is sufficient

23. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

Six people A, B, C, D, E, and f are sitting in a row facing north. What is the position of C with respect to F?

Statement I: A sits second from one end. One person sits between A and B. C sits immediately left of D. F sits to the right of C.

Statement II: B sits third from one of the ends. F who does not sit at the corner is one of the positions right to B. One person sits between D and F. Two people sit between D and A.

- a. Only I is sufficient
- b. Only II is sufficient
- c. Both are not sufficient to answer the question
- d. Both are necessary to answer the question
- e. Either I or II is sufficient

24. Direction: Study the following information carefully and answer the given questions. (+1, -0.25)

X is in which direction with respect to Q?

Statement I: P is 5 meter west of Q. R is 10 meter south of Q. S is 8 meter east of R. T is 12 meter north of S. X is 8 meter west of T.

Statement II: V is 8 meter south of Q. V is 4 meter east of U which is 10 meter south of W. Y is 2 meter west of W. Distance between X and Y is 2 meters.

- a. Statement I is alone sufficient
- b. Statement II is alone sufficient
- c. Both statements are together necessary to answer the question
- d. Both statement are together not sufficient to answer the question
- e. Either I or II is sufficient to answer the question

25. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

P @ Q means P is the father of Q.

P # Q means P is the mother of Q.

P \$ Q means P is the husband of Q.

P % Q means P is the wife of Q.

P & Q means P is the son of Q.

P * Q means P is the daughter of Q.

P = Q means P is the sister of Q.

P + Q means P is the brother of Q.

In expression 'R # P = S # Q + J (?) T; R % M @ S % T'

What will come in the place of the '?' to satisfy J is the child of T?

- a. &
- b. *

- c. +
- d. Either 1 or 2
- e. Either 2 or 3

26. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

P @ Q means P is the father of Q.

P # Q means P is the mother of Q.

P \$ Q means P is the husband of Q.

P % Q means P is the wife of Q.

P & Q means P is the son of Q.

P * Q means P is the daughter of Q.

P = Q means P is the sister of Q.

P + Q means P is the brother of Q.

In expression 'M * S \$ R # A + B \$ N' How N is related to M?

- a. Sister
- b. Brother
- c. Cousin
- d. Daughter
- e. Sister-in-law

27. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

P @ Q means P is the father of Q.

P # Q means P is the mother of Q.

P \$ Q means P is the husband of Q.

P % Q means P is the wife of Q.

P & Q means P is the son of Q.

P * Q means P is the daughter of Q.

P = Q means P is the sister of Q.

P + Q means P is the brother of Q.

In expression 'P % B @ N = Q \$ S # T; Q + M @ C'

How is T related to C?

- a. Sister
- b. Brother
- c. Cousin
- d. Sister-in-law
- e. Cannot be determined

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28. Directions: In the question below are given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. On the basis of the information given in the statement to be true, then decide which of the suggested courses of action logically follow(s) for pursuing. (+1, -0.25)

Now a days children are more attracted towards playing mobile and computer games rather than playing outdoor games. These games offer a remarkable graphical interface with illuminating images of cars, soldiers, fighters, and players which attracts the interest of children towards this technology and there are thousands of games on one platform. But it has a very bad effect on children's health. It leads to obesity, muscular strain, and eye damage. Overall, this is not a beneficial trend as it can isolate a child from society and make them unhealthy.

Course of action:

- I) Children should play outdoor games to keep their body and mind fit and fine.
- II) Parents should stop using mobile so that the children could not play mobile games.
- III) Parents should tell their children to focus only on study not any kind of games.

- a. Only II and III follow
- b. Only I follows
- c. Only II follows
- d. Only I and III follow
- e. All I, II and III follow

29. Direction: Study the following information and answer the following questions. (+1, -0.25)

Cognizant has reduced the maximum bench time for employees, opening up the possibility of higher numbers of exits in the coming months. The company has shrunk the bench time from 60 days to 35 days for those employees who aren't on billable projects. After 35 days, they could be asked to leave. The formal exit process may take another 60 to 90 days.

- (A) Cognizant pays its employees even when they are not on billable projects.
- (B) More layoffs will take place in Cognizant in the coming days.
- (C) Headcounts in Cognizant are definitely going to shrink in the days to come globally.
- (D) The company is trying to reduce its overhead expenses incurred on the employees.
- (E) Pay and perk is set to decrease for Cognizant employees in the coming years.

Which of the following among (A), (B), (C), (D) and (E) has been **assumed** in the given information?

- a. Only (B)
- b. Only (C)
- c. Only (D)

d. Only (A)

e. Only (E)

30. **Direction:** Study the following information and answer the following questions. (+1, -0.25)

Cognizant has reduced the maximum bench time for employees, opening up the possibility of higher numbers of exits in the coming months. The company has shrunk the bench time from 60 days to 35 days for those employees who aren't on billable projects. After 35 days, they could be asked to leave. The formal exit process may take another 60 to 90 days.

(A) Cognizant pays its employees even when they are not on billable projects.

(B) More layoffs will take place in Cognizant in the coming days.

(C) Headcounts in Cognizant are definitely going to shrink in the days to come globally.

(D) The company is trying to reduce its overhead expenses incurred on the employees.

(E) Pay and perk is set to decrease for Cognizant employees in the coming years.

Which of the following among (A), (B), (C), (D) and (E) will be the **effect** of the reduction in the bench time by Cognizant?

a. Only (B)

b. Only (D)

c. Only (A)

d. Only (C)

e. Only (E)

31. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

9 persons P to X belongs to three different states (Tripura, Manipur, and Assam) of different ages. Not more than 4 and not less than 2 persons belong to each state. If it is given for example B and the one who is 10yrs belong to the same state then that means B is not 10 years. P and V do not belong to the same state. S does not belong to Tripura and Assam. Q and the one who is 18yrs old belong to the same

state and these are the only persons belonging to that state. U and the one who is 29 yrs old belong to the same state and U's age is an odd number. W and the one who is 54 yrs old belong to the same state. V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. P is the eldest person in his/her respective state. The one who is 53 yrs belongs to Tripura. S age is twice of Q. V's age is 7 years less than W's age. R is not the youngest person. The minimum age is 18 yrs. V is elder than Q. P and S do not belong to the same state. V and T belong to the same state. U is 5 yrs elder than Q and one of the ages is 51 yrs.

What is the age of V?

- a. 37
- b. 54
- c. 35
- d. 29
- e. 61

32. **Direction:** Study the following information carefully and answer the given questions.

(+1, -0.25)

9 persons P to X belongs to three different states (Tripura, Manipur, and Assam) of different ages. Not more than 4 and not less than 2 persons belong to each state. If it is given for example B and the one who is 10yrs belong to the same state then that means B is not 10 years. P and V do not belong to the same state. S does not belong to Tripura and Assam. Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. U and the one who is 29 yrs old belong to the same state and U's age is an odd number. W and the one who is 54 yrs old belong to the same state. V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. P is the eldest person in his/her respective state. The one who is 53 yrs belongs to Tripura. S age is twice of Q. V's age is 7 years less than W's age. R is not the youngest person. The minimum age is 18 yrs. V is elder than Q. P and S do not belong to the same state. V and T belong to the same state. U is 5 yrs elder than Q and one of the ages is 51 yrs.

Who among the following belongs to Assam?

- a. P
- b. R
- c. T
- d. U
- e. X

33. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

9 persons P to X belongs to three different states (Tripura, Manipur, and Assam) of different ages. Not more than 4 and not less than 2 persons belong to each state. If it is given for example B and the one who is 10yrs belong to the same state then that means B is not 10 years. P and V do not belong to the same state. S does not belong to Tripura and Assam. Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. U and the one who is 29 yrs old belong to the same state and U's age is an odd number. W and the one who is 54 yrs old belong to the same state. V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. P is the eldest person in his/her respective state. The one who is 53 yrs belongs to Tripura. S age is twice of Q. V's age is 7 years less than W's age. R is not the youngest person. The minimum age is 18 yrs. V is elder than Q. P and S do not belong to the same state. V and T belong to the same state. U is 5 yrs elder than Q and one of the ages is 51 yrs.

Sum of ages of R and S is:

- a. 125
- b. 59
- c. 88
- d. 121
- e. 53

34. **Direction:** Study the following information carefully and answer the given questions.

(+1, -0.25)

9 persons P to X belongs to three different states (Tripura, Manipur, and Assam) of different ages. Not more than 4 and not less than 2 persons belong to each state. If it is given for example B and the one who is 10yrs belong to the same state then that means B is not 10 years. P and V do not belong to the same state. S does not belong to Tripura and Assam. Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. U and the one who is 29 yrs old belong to the same state and U's age is an odd number. W and the one who is 54 yrs old belong to the same state. V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. P is the eldest person in his/her respective state. The one who is 53 yrs belongs to Tripura. S age is twice of Q. V's age is 7 years less than W's age. R is not the youngest person. The minimum age is 18 yrs. V is elder than Q. P and S do not belong to the same state. V and T belong to the same state. U is 5 yrs elder than Q and one of the ages is 51 yrs.

Find the odd man out:

- a. S
- b. T
- c. U
- d. V
- e. W

35. **Direction:** Study the information given carefully and answer the question given below.

(+1, -0.25)

'A # B' means 'A is either smaller than or equal to B.'

'A \$ B' means 'A is neither smaller than nor equal to B.'

'A + B' means 'A is either greater than or equal to B.'

'A @ B' means 'A is neither greater than nor equal to B.'

'A * B' means 'A is neither greater than nor smaller than B.'

Statement: S @ T \$ Q + R; Q * P @ W

Conclusion:

I) $R \neq W$

II) $W \leq R$

a. Only I follows

b. Only II follows

c. Both I and II follow

d. Either I or II follows

e. Neither I or II follows

36. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

'A $\#$ B' means 'A is either smaller than or equal to B.'

'A $\$$ B' means 'A is neither smaller than nor equal to B.'

'A $+$ B' means 'A is either greater than or equal to B.'

'A $@$ B' means 'A is neither greater than nor equal to B.'

'A $*$ B' means 'A is neither greater than nor smaller than B.'

Statement: $S @ T \leq Q + R$; $Q * P @ W$

Conclusion:

I) $R \neq W$

II) $W \leq R$

III) $R @ T$

a. Only II follow

b. Only I and II follow

c. Only III follow

d. Only II and III follow

e. Only I follow

37. Direction: Study the information given carefully and answer the question given below. (+1, -0.25)

'A # B' means 'A is either smaller than or equal to B.'

'A \$ B' means 'A is neither smaller than nor equal to B.'

'A + B' means 'A is either greater than or equal to B.'

'A @ B' means 'A is neither greater than nor equal to B.'

'A * B' means 'A is neither greater than nor smaller than B.'

Statement: $U @ V + W \# Y * X; V + P \$ Q$

Conclusion:

I) $P \# X$

II) $Q @ U$

III) $W \# X$

a. Only II follow

b. Only III follow

c. Only I follow

d. All follows

e. None follow

38. Direction: In the question the statement is given followed by some inferences. You must consider the statement to be true even if it seems to be at variance from commonly known facts. (+1, -0.25)

There is considerable reduction in the number of people affected by water-borne diseases in City X during this rainy season. Waterborne diseases are caused by drinking contaminated or dirty water. Contaminated water can cause many types of diarrheal diseases, including Cholera, and other serious illnesses such as Guinea worm disease, Typhoid, and Dysentery. The government has opened four

new civil hospitals in City X in the beginning of the year to treat these diseases by providing better Health Services. These hospitals strive to help people improve their productivity and reduce risks of diseases and injury in a cost-effective way.

Which of the following statement can be inferred from the passage?

- a. The people affected by the water borne diseases has reduced over past few years.
- b. The hospital helps the poor people who were suffering from water borne diseases with better health services.
- c. Government opened new hospitals to provide cost effective health services.
- d. As people spend more money to treat this disease, Government opened new hospitals to provide treatment in cost effective way.
- e. Drinking contaminated water cause water borne diseases including diarrheal disease..

39. **Directions :** Read the passage and answer the following question.

(+1, -0.25)

Statement: Prime Minister Narendra Modi is all set tomorrow to launch three mega flagship schemes aimed at transforming urban India, including the much talked about Smart Cities proposal, with a whopping Rs 4 lakh crore kitty having been lined up for the projects. Urban Development Minister States and local bodies will play a key role in the execution of these schemes, the minister said, adding that there will also be a lot of scope for private participation. "Effective management of growing urbanization is a major challenge towards the making of resurgent India. Resource management is a major challenge. The government, through these schemes, is looking to bring about a transformation of urban India with the critical goal of making the country an economic hub. Speaking at the event, Modi said, " The decision to make cities smart will be taken not by governments but by the people of the city, the local administration. Let there be competition between the cities in that smart cities come up".

Which of the following will be an effect of the initiative taken by the government?

- a. Millions of job will be created and scarcity of houses will be removed in urban and rural areas.
- b. Quality of life will improve in rural and urban areas.
- c. Enhanced citizen and government engagement beside implementation of reforms in urban governance would be the focus under the scheme.
- d. Ensuring water supply to each household, sewer connections, sanitation and solid waste management in rural and urban governance would be the focus under the scheme.
- e. All of the above

40. Directions : In the question below is given a statement followed by two Inferences I and II. You have to assume everything in the statement to be true on the basis of the information given in the statement, decide which of the given inferences can be deduced. (+1, -0.25)

Statement: China launched the second of the three modules needed to complete its new space station. This was the most recent development in Beijing's ambitious space project. A long march 5B rocket launched the unmanned spaceship with the call sign Wentian from the Wenchang launch facility on China's tropical island success.

Inferences :

- I. China will launch another unmanned spaceship into space.
- II. China is building a space project to infest other countries.

- a. Only inference I can be inferred
- b. Only inference II can be inferred
- c. Both inference I and II can be inferred
- d. Neither inference I nor II can be inferred
- e. Either inference I or II can be inferred

41. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

Ten persons sit in two parallel rows with 5 persons in each row. Row 1 has A, B, C, D and E facing north and row 2 has P, Q, R, S and T facing south. These persons belong to a three-generation family. A sits 2nd from one of the ends. R faces immediate neighbour of A's niece. E's mother-in-law sits opposite to the one who sits 3rd to the right of A. One person sits between A and her sister-in-law. B is married to E who has one child. R sits to the right of T. Q is married. A's son sits immediate right of A. B's father faces A who has two children one son and one daughter. P and her granddaughter Q are not sitting together. Three persons sit between B and the person sitting opposite to Q's father. C and D are unmarried. C does not sit next to E.

How C is related to Q?

- a. Mother
- b. Son
- c. Cousin
- d. Sister
- e. None of these

42. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

Ten persons sit in two parallel rows with 5 persons in each row. Row 1 has A, B, C, D and E facing north and row 2 has P, Q, R, S and T facing south. These persons belong to a three-generation family. A sits 2nd from one of the ends. R faces immediate neighbour of A's niece. E's mother-in-law sits opposite to the one who sits 3rd to the right of A. One person sits between A and her sister-in-law. B is married to E who has one child. R sits to the right of T. Q is married. A's son sits immediate right of A. B's father faces A who has two children one son and one daughter. P and her granddaughter Q are not sitting together. Three persons sit

between B and the person sitting opposite to Q's father. C and D are unmarried. C does not sit next to E.

Find the odd one according to their position.

- a. S
- b. R
- c. P
- d. C
- e. B

43. Direction: Study the following information carefully and answer the given questions. (+1, -0.25)

Ten persons sit in two parallel rows with 5 persons in each row. Row 1 has A, B, C, D and E facing north and row 2 has P, Q, R, S and T facing south. These persons belong to a three-generation family. A sits 2nd from one of the ends. R faces immediate neighbour of A's niece. E's mother-in-law sits opposite to the one who sits 3rd to the right of A. One person sits between A and her sister-in-law. B is married to E who has one child. R sits to the right of T. Q is married. A's son sits immediate right of A. B's father faces A who has two children one son and one daughter. P and her granddaughter Q are not sitting together. Three persons sit between B and the person sitting opposite to Q's father. C and D are unmarried. C does not sit next to E.

How T is related to A?

- a. Son
- b. Husband
- c. Brother
- d. Farther
- e. Son-in-law

44. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

Ten persons sit in two parallel rows with 5 persons in each row. Row 1 has A, B, C, D and E facing north and row 2 has P, Q, R, S and T facing south. These persons belong to a three-generation family. A sits 2nd from one of the ends. R faces immediate neighbour of A's niece. E's mother-in-law sits opposite to the one who sits 3rd to the right of A. One person sits between A and her sister-in-law. B is married to E who has one child. R sits to the right of T. Q is married. A's son sits immediate right of A. B's father faces A who has two children one son and one daughter. P and her granddaughter Q are not sitting together. Three persons sit between B and the person sitting opposite to Q's father. C and D are unmarried. C does not sit next to E.

Who sits opposite to the one who sits immediate left of R?

- a. A
- b. B
- c. C
- d. D
- e. E

45. **Direction:** Study the following information carefully and answer the given questions. (+1, -0.25)

Ten persons sit in two parallel rows with 5 persons in each row. Row 1 has A, B, C, D and E facing north and row 2 has P, Q, R, S and T facing south. These persons belong to a three-generation family. A sits 2nd from one of the ends. R faces immediate neighbour of A's niece. E's mother-in-law sits opposite to the one who sits 3rd to the right of A. One person sits between A and her sister-in-law. B is married to E who has one child. R sits to the right of T. Q is married. A's son sits immediate right of A. B's father faces A who has two children one son and one daughter. P and her granddaughter Q are not sitting together. Three persons sit

between B and the person sitting opposite to Q's father. C and D are unmarried. C does not sit next to E.

How P is related to E?

- a. Father-in-law
- b. Mother -in-law
- c. Sister-in-law
- d. Daughter
- e. Daughter-in-law

Prepp

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General Awareness

46. In September 2022, the Monetary Policy Committee of Reserve Bank of India has decided to increase Bank Rate to the_____. (+1, -0.25)
- a. 5.7
 - b. 6.15
 - c. 6.1
 - d. 6.3
 - e. 5.65
-
47. Minicoy, Thundi Beach and Kadmat Beach, are the proud entrants in the coveted list of Blue Beaches, an eco-label given to the cleanest beaches in the world. These two beaches are located in which of the following UT? (+1, -0.25)
- a. Puducherry
 - b. Nicobar
 - c. Lakshadweep
 - d. Andaman
 - e. Daman and Diu
-
48. What is the name of the web-based application which has been launched by RBI Governor Shaktikanta Das on 6th Oct 2022, to make the supervisory processes more robust? (+1, -0.25)
- a. SAKSHAM
 - b. URJA
 - c. UNION

- d. DAKSH
- e. PRAWAH

49. Tennis player Carlos Alcaraz has won the title match of US Open 2022, he defeated Casper Rood. Casper Rood belongs to which of the following country? (+1, -0.25)

- a. Spain
- b. USA
- c. Greece
- d. Norway
- e. Germany

50. Rishi Sunak became the _____UK's next prime minister on October 25, after meeting King Charles at Buckingham Palace. (+1, -0.25)

- a. 54th
- b. 53rd
- c. 50th
- d. 57th
- e. 58th

51. PM Narendra Modi inaugurated the first greenfield airport, Donyi Polo Airport, in which of the following states? (+1, -0.25)

- a. Assam
- b. Arunachal Pradesh
- c. West Bengal

d. Sikkim

e. Nagaland

52. India ranked 132 out of 191 countries in the 2021 Human Development Index (HDI), according to a report released by the United Nations Development Programme (UNDP). Who among the following was on top as per the HDI Index 2022? (+1, -0.25)

a. Bhutan

b. Sri Lanka

c. Bangladesh

d. Nepal

e. Pakistan

53. Which city has been declared the first 'cultural and tourism capital' of Shanghai Cooperation Organization (SCO) in July 2022? (+1, -0.25)

a. Islamabad

b. Beijing

c. Varanasi

d. Ujjain

e. None of the above

54. Prime Minister Shri Narendra Modi laid the foundation stone of the C-295 transport aircraft manufacturing facility – the country's first in the private sector – in Vadodra, Gujarat. The C-295 aircraft has been manufactured by Airbus Defence and Space S.A., Spain, and which of the following Indian companies? (+1, -0.25)

a. TATA Advanced Systems Limited

- b. Hindustan Aeronautics Limited (HAL)
 - c. BAE Systems India Services Pvt Ltd
 - d. Boeing India Pvt Ltd
 - e. Electronics Corporation of India Ltd
-

55. The Nobel Prize in economics 2022 has been given to US economists Ben S. Bernanke, Douglas Diamond, Philip H. Dybvig. What was the topic of their research? (+1, -0.25)

- a. On the reduction of the risk of financial crises developing into short-term depressions.
 - b. On the reduction of the risk of financial crises developing into short-term boom.
 - c. On the reduction of the risk of medical crises developing into long-term depressions.
 - d. On the reduction of the risk of financial crises developing into long-term depressions.
 - e. On the reduction of the risk of medical crises developing into long-term boom.
-

56. 14 th World Spice Congress (WSC), organized by Spices Board India in association with various trade and export forums, is scheduled to be held in which of the following cities during February 2023? (+1, -0.25)

- a. Kochi
- b. Navi Mumbai
- c. Surat
- d. Trivandrum

e. New Delhi

57. In November 2022, RBI imposed a penalty of how many rupees for Vakrangee Ltd. **(+1, -0.25)**
for non-compliance with some provisions related to White Label ATM (WLA)
directions?

- a.** Rs. 1.5 crores
 - b.** Rs. 1.67 crores
 - c.** Rs. 1.75 crores
 - d.** Rs. 1.76 crores
 - e.** Rs. 1.78 crores
-

58. Which Bank has received the RBI's approval to open a special vostro account with **(+1, -0.25)**
Gazprombank of Russia for trade settlement in Indian rupees?

- a.** Indusind Bank
 - b.** SBI Bank
 - c.** HDFC Bank
 - d.** ICICI Bank
 - e.** UCO bank
-

59. In April 2022, SEBI has reduced the time taken for the listing of public issue units of **(+1, -0.25)**
REIT and InvIT to _____ from the present 12 days.

- a.** 5 days
- b.** 6 days
- c.** 7 days

- d. 8 days
 - e. 10 days
-

60. The world-famous International Sand Art Festival will take place in December 2022 in Odisha at the Chandrabhaga Beach, which is located near to _____. (+1, -0.25)

- a. Balukhand
 - b. Padamapur
 - c. Batighara
 - d. Konark
 - e. Puri
-

61. Which of the following mutual fund company has launched India's first Auto Index Fund in September 2022? (+1, -0.25)

- a. SBI Mutual Fund
 - b. HDFC Mutual Fund
 - c. Navi Mutual Fund
 - d. ICICI Prudential Mutual Fund
 - e. None of the above
-

62. Which of the following Indian bank has become the first to issue an e- Bank Guarantee? (+1, -0.25)

- a. SBI Bank
- b. ICICI Bank
- c. HDFC Bank

- d. Axis Bank Bank
 - e. Union Bank
-

63. The lemon and lime-flavored soft drink 'Sprite' has become a billion-dollar brand in the Indian market.'Sprite' is owned by which of the company? (+1, -0.25)

- a. Pepsico Inc.
 - b. The Coca-Cola Company
 - c. Bisleri International private limited
 - d. Parle Agro
 - e. None of these
-

64. Which of the following will be the 12th company to get the status of the 'Maharatna' company? (+1, -0.25)

- a. Container Corporation of India Limited
 - b. Power Finance Corporation Limited
 - c. Hindustan Aeronautics Limited
 - d. Rural Electrification Corporation Limited
 - e. Coal India Limited
-

65. Which of the following state has passed the bill to ban online gambling and to regulate online games keeping in view the well-being of citizens? (+1, -0.25)

- a. Uttar Pradesh
- b. New Delhi
- c. Tamil Nadu

- d. Kerala
 - e. Karnataka
-

66. The Competition Commission of India has approved the merger between Sony Pictures Networks India (SPN) and which of the following Indian media network? (+1, -0.25)
- a. Viacom 18 Media Private Limited
 - b. The Walt Disney Company India
 - c. Zee Entertainment Enterprises Ltd
 - d. 9X Media India
 - e. DD Network India
-

67. Which of the following is true about Social Stock Exchange? (+1, -0.25)
- A) The idea of SSE was first floated by Finance Minister Nirmala Sitharaman in her Budget speech for the financial year 2021-2022.
 - B) The idea of the Social Stock Exchange (SSE) is to provide social enterprises with an additional avenue to raise funds.
 - C) Sebi has asked social enterprises raising funds using SSE to disclose the Annual Impact Report (AIR) within 60 days from the end of the financial year.
- a. A, B & C
 - b. A & C only
 - c. B & C only
 - d. B only
 - e. C only
-

68. Prime Minister has launched National Logistics Policy, according to the policy India aims to be among the top 25 countries in the Logistics Performance Index ranking by which year? (+1, -0.25)

- a. 2025
- b. 2023
- c. 2024
- d. 2027
- e. 2030

69. Commercial Papers are issued in multiple of ----- (+1, -0.25)

- a. Rs. 1 lakh
- b. Rs. 3 lakh
- c. Rs. 5 lakh
- d. Rs. 10 lakh
- e. Rs. 50,000

70. In October 2022, Genetic Engineering Appraisal Committee approved the commercial cultivation of genetically modified seeds of which of the following? (+1, -0.25)

- a. Sesame
- b. Soya
- c. Mustard
- d. Canola
- e. Sunflower

71. As per the Union Budget 2022-2023, the Productivity Linked Incentive (PLI) scheme in 14 sectors has targeted to create 60 lakh new jobs and an additional production of Rs. 30 lakh crore during next 5 years. PLI scheme was launched by PM Modi on 11 November 2020 in how many key sectors? (+1, -0.25)

- a. 9 sectors
- b. 10 sectors
- c. 11 sectors
- d. 12 sectors
- e. 13 sectors

72. Who among the following can not open the savings account in the Schedule Commercial bank? (+1, -0.25)

- a. Municipal Corporations/Committees
- b. Panchayat Samities
- c. Metropolitan Development Authorities
- d. State Government

- a. c and d
- b. Only a
- c. b and c
- d. a, b, and c
- e. Only d

73. Who among the following was appointed as the Chief Information Commissioner (CIC) in March 2020? (+1, -0.25)

- a. Ajay Bhusan Pandey
- b. Satish Kumar Sharma
- c. Amita Pandove
- d. Bimal Julka
- e. None of these

74. Which bank has entered into an agreement to buy a 2 percent stake in asset reconstruction company NARCL for Rs 55 crore in March 2022? (+1, -0.25)

- a. Reserve Bank of India
- b. Punjab National Bank
- c. State Bank of India
- d. Punjab & Sind Bank
- e. Either Option 1 or 2

75. The Union Minister for Finance & Corporate Affairs, Smt. Nirmala Sitharaman, tabled the Union Budget 2022–23. Consider the following statements about the Union Budget. (+1, -0.25)

- a. India's economic growth is estimated at 9.2% to be the highest among all large economies.
 - b. 1600 crore outlay for implementation of the Ken – Betwa link project.
 - c. Udyam, e-shram, NCS and ASEEM portals to be interlinked.
- a. Only c
 - b. b and c
 - c. a and c

d. Only a

e. Only b

76. The Reserve Bank Of India(RBI) has released a concept note on the CBDC. It is a digital form of currency notes issued by the central bank. Both the C in the acronym stands for _____ and _____ respectively. (+1, -0.25)

a. Currency, Central

b. Central, Credit

c. Credit, Central

d. Credit, Currency

e. Central, Currency

77. Indian rocket startup _____ has raised \$51 million in a funding round led by Singapore sovereign investor GIC, which it plans to use to begin commercial satellite launches by the middle of next year. (+1, -0.25)

a. Asteria Aerospace

b. Hampson Industries

c. Skyroot Aerospace

d. Aadyah Aerospace

e. Newtech Aerospace

78. _____ and Indian Banks' Association (IBA) are jointly organising FIBAC – our annual banking conference on November 2 and 3 in Mumbai. (+1, -0.25)

a. Confederation of Indian Industry (CII)

- b. Reserve Bank of India (RBI)
 - c. Federation of Indian Chambers of Commerce and Industry (FICCI)
 - d. State Bank of India (SBI)
 - e. Associated Chambers of Commerce and Industry of India (ASSOCHAM)
-

79. On October 19, 2022, the 'Mission Schools of Excellence' project was launched in Gandhinagar, Gujarat. Who among the following has launched this project? (+1, -0.25)

- a. PM Narendra Modi
 - b. President Droupadi Murmu
 - c. Vice President Jagdeep Dhankar
 - d. Home Minister Amit Shah
 - e. S. Jayshankar
-

80. SIDBI partnered with _____ co-operative bank to empower MSMEs. (+1, -0.25)

- a. Shivalik Mercantile
 - b. Saraswat
 - c. Abhyudaya
 - d. Bharat
 - e. SVC
-

81. The Government of India has announced to issue sovereign green bonds of how much in the first half of FY23 ? (+1, -0.25)

- a. \$3.1 Billion

- b. \$3.2 Billion
 - c. \$3.3 Billion
 - d. \$3.4 Billion
 - e. \$3.5 Billion
-

82. The RBI allowed large modern currency chests to increase the service charges on cash deposited by non-chest bank branches from the existing rate to a maximum of ₹_____ per packet (+1, -0.25)

- a. 6
 - b. 7
 - c. 8
 - d. 9
 - e. 10
-

83. Which bank recently won the global 'Celent Model Bank' award for building a best-in-class Enterprise Payments Hub (EPH)? (+1, -0.25)

- a. Kotak Mahindra Bank
 - b. HDFC Bank
 - c. ICICI Bank
 - d. Axis Bank
 - e. IndusInd Bank
-

84. The Reserve Bank of India (RBI) has imposed a penalty of Rs 57.50 lakh on _____ for non-compliance with the directions. (+1, -0.25)

- a. Kotak Mahindra Bank
- b. State Bank of India
- c. Axis Bank
- d. Indian Overseas Bank (IOB)
- e. Union Bank of India

85. The Reserve Bank of India (RBI) has cancelled the licence of _____ (+1, -0.25)
citing inadequate capital & earning prospects in September 2022.

- a. The Laxmi Co-operative Bank Ltd
- b. Jila Sahakari Kendriya Bank
- c. Goa State Co-operative Bank
- d. Warud Urban Co-operative Ban
- e. None of the above

Your Personal Exams Guide

English Language

86. In the following question, a situation is described followed by a list of words. (+2, -0.5)

Identify the correct word that can be used to describe the passage/ a part of the passage and mark the answer accordingly.

A **geostationary orbit** , also referred to as a **geosynchronous equatorial orbit (GEO)** , is a circular geosynchronous orbit 35,786 kilometers (22,236 miles) above Earth's equator and following the direction of Earth's rotation .

An object in such an orbit has an orbital period equal to the Earth's rotational period, one sidereal day , and so to ground observers, it appears motionless, in a fixed position in the sky. The concept of a geostationary orbit was popularized by the science fiction writer Arthur C. Clarke .Communications satellites are often placed in a geostationary orbit so that Earth-based satellite antennas (located on Earth) do not have to rotate to track them but can be pointed permanently at the position in the sky where the satellites are located.

- a. Pedestrian
- b. Technical
- c. Euphemistic
- d. Laudatory
- e. Populist

87. Directions: Read the given paragraph and select the option which can be inferred from the given paragraph. (+2, -0.5)

The Cluster Development Programme has a great potential to transform the entire horticulture ecosystem by creating last-mile connectivity with the use of multimodal transport for efficient and timely evacuation and transportation of horticulture produce. The CDP will also create cluster-specific brands, while helping the economy, to integrate them into national and global value chains, thereby providing higher remuneration to farmers. The CDP will benefit around 10 lakh farmers and related stakeholders along the value chain. The CDP aims to improve exports of targeted crops by about 20% and create cluster-specific

brands to enhance the competitiveness of cluster crops. A lot of investment will also come in the horticulture sector through CDP.

- a. The Cluster Development Programme is a cash cow for the economy and farmers.
- b. The horticulture sector will feel the pinch of this programme.
- c. The horticulture sector plays second fiddle to the economy.
- d. The CDP is inconsequential to the farmers.
- e. None of these.

88. Directions: Read the given paragraph and select the option which can be inferred from the given paragraph. **(+2, -0.5)**

The Ministry of Culture is organizing the fourth edition of e- auction of prestigious and memorable gifts presented to Prime Minister Shri Narendra Modi which is scheduled from 17th September to 2nd October, 2022. Briefing the media, Union Minister of Culture, Tourism and DoNER, Shri G. Kishan Reddy said, "In 2019 these items were auctioned for people by open bidding. That time 1805 gifts were put on auction in the first round, and in second round 2772 gift items were put on auction. In 2021, also e-auction was organized in September and we had 1348 items on auction. This year approximately 1200 mementos and gift items have been put on e-auction. The display of the mementos have been done at the National Gallery of Modern Art, New Delhi. These items can also be viewed on the website".

- a. The purpose of the auction is to raise fund for a cultural event.
- b. The ministry brought under the hammer such gifts in the past also.
- c. The articles are created by local craftsmen.
- d. With the help of the auction the ministry wants to pay its way.
- e. The ministry organized this auction because its ministers want to retire with a golden handshake.

89. Directions: Read the given paragraph and select the option which can be inferred from the given paragraph. (+2, -0.5)

It is true that whenever there is a conference of big platforms like G-20 in the world, it has its own diplomatic and geo-political implications. It's also natural. But for India, this summit is not just a diplomatic meeting. India sees this as a new responsibility for itself. India sees this as the world's faith in itself. Today, there is an unprecedented curiosity in the world to know India, to understand India. Today, India is being studied in a new light. Our current successes are being assessed. Unprecedented hopes are being expressed about our future. In such a situation, it is the responsibility of us countrymen to do much better than these hopes and expectations.

- a. By organizing this conference India is skating on thin ice.
- b. Indians should roll up sleeves and continue their endeavour.
- c. The world is indifferent to India's achievements.
- d. G-20 platforms is barmecide feast for the hosting country.
- e. None of these.

90. Directions: Read the given paragraph and select the option which can be inferred from the given paragraph. (+2, -0.5)

In October, after the Colombian government was sued over its plan to sterilize or kill the animals, a federal court ruled that the hippos can be recognized as people or "interested persons" with legal rights in the U.S. But the order doesn't carry any weight in Colombia where the hippos live, a legal expert said.

- a. The Colombian government is abide by the ruling of the Federal court.
- b. The government is hoping against hope to control the population of the animal.
- c. The hippos are the bone of contention between the Colombian government and a court.

- d. The Federal court has turned a deaf ear to the situation.
- e. None of these.

91. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

Excluding the volatile food and energy components, so-called core prices accelerated from a month earlier, rising by a larger-than-forecast 0.6%. The measure jumped 5.5% from a year earlier, the biggest advance since 1991. The increase in the CPI was led by higher prices for shelter and used vehicles. Food costs also contributed. Energy prices, which were a key driver of inflation through most of 2021, fell last month. The data bolster expectations that the Fed will begin raising interest rates in March, a sharp policy adjustment from the timeline projected just a few months ago. **Rock-solid** inflation has proven more stubborn and widespread than the central bank predicted amid unprecedented demand for goods along with capacity constraints related to the supply of both labor and materials. Meanwhile, the unemployment rate has now fallen below 4%. Against this evolving backdrop, some Fed policy makers have said that it could be appropriate to begin shrinking the central bank's balance sheet soon after raising rates. Market expectations for Fed tightening expected in March and 2022 as a whole were largely unchanged after the report. Yields on 10-year Treasuries fluctuated while S&P 500 futures maintained gains and the dollar extended its decline on the day. *The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slid.* Food inflation climbed 0.5%, a slight deceleration from the previous month due to falling costs for meats. Shelter costs which are considered to be a more structural component of the CPI and make up about a third of the overall index—rose 0.4% from the prior month. Other gauges of home prices and rents have surged last year, likely presaging a sharp acceleration in the report's housing metrics this year and offering an enduring **tailwind** to inflation.

Which of the following option conveys the same meaning as the underlined sentence given in italics in the paragraph?

- a. Had the prices for shelter and used vehicles remained constant the CPI would not have changed.

- b. Surge in the shelter and used vehicle price created domino effect and caused upward pressure on CPI.
- c. Costs for the shelter and the used vehicles increased as a result of accelerated CPI.
- d. The CPI is the sole indicator of fluctuation in prices of shelter and used vehicles.
- e. None of the above.

92. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

Excluding the volatile food and energy components, so-called core prices accelerated from a month earlier, rising by a larger-than-forecast 0.6%. The measure jumped 5.5% from a year earlier, the biggest advance since 1991. The increase in the CPI was led by higher prices for shelter and used vehicles. Food costs also contributed. Energy prices, which were a key driver of inflation through most of 2021, fell last month. The data bolster expectations that the Fed will begin raising interest rates in March, a sharp policy adjustment from the timeline projected just a few months ago. **Rock-solid** inflation has proven more stubborn and widespread than the central bank predicted amid unprecedented demand for goods along with capacity constraints related to the supply of both labor and materials. Meanwhile, the unemployment rate has now fallen below 4%. Against this evolving backdrop, some Fed policy makers have said that it could be appropriate to begin shrinking the central bank's balance sheet soon after raising rates. Market expectations for Fed tightening expected in March and 2022 as a whole were largely unchanged after the report. Yields on 10-year Treasuries fluctuated while S&P 500 futures maintained gains and the dollar extended its decline on the day. *The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slid.* Food inflation climbed 0.5%, a slight deceleration from the previous month due to falling costs for meats. Shelter costs which are considered to be a more structural component of the CPI and make up about a third of the overall index—rose 0.4% from the prior month. Other gauges of home prices and rents have surged last year, likely presaging a sharp acceleration in the report's housing metrics this year and offering an enduring **tailwind** to inflation.

Which of the following is **true** in the context of the passage?

- A) Rising prices of all the commodities intensify the inflation.
 - B) The inflation is difficult to control because there is sudden acceleration in demands against the constant supply.
 - C) The Dollar is impervious to the inflation.
 - D) The shelter costs make up about fifty percentage of the CPI.
- a. C only
 - b. A and C only
 - c. B and C only
 - d. A and D only
 - e. None is true.

93. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

Excluding the volatile food and energy components, so-called core prices accelerated from a month earlier, rising by a larger-than-forecast 0.6%. The measure jumped 5.5% from a year earlier, the biggest advance since 1991. The increase in the CPI was led by higher prices for shelter and used vehicles. Food costs also contributed. Energy prices, which were a key driver of inflation through most of 2021, fell last month. The data bolster expectations that the Fed will begin raising interest rates in March, a sharp policy adjustment from the timeline projected just a few months ago. **Rock-solid** inflation has proven more stubborn and widespread than the central bank predicted amid unprecedented demand for goods along with capacity constraints related to the supply of both labor and materials. Meanwhile, the unemployment rate has now fallen below 4%. Against this evolving backdrop, some Fed policy makers have said that it could be appropriate to begin shrinking the central bank's balance sheet soon after raising rates. Market expectations for Fed tightening expected in March and 2022 as a whole were largely unchanged after the report. Yields on 10-year Treasuries fluctuated while S&P 500 futures maintained gains and the dollar extended its

decline on the day. *The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slid.* Food inflation climbed 0.5%, a slight deceleration from the previous month due to falling costs for meats. Shelter costs which are considered to be a more structural component of the CPI and make up about a third of the overall index—rose 0.4% from the prior month. Other gauges of home prices and rents have surged last year, likely presaging a sharp acceleration in the report's housing metrics this year and offering an enduring **tailwind** to inflation.

In which of the following sentences the word tailwind is used correctly?

- A) Inflation and deflation are tailwind with each other.
- B) The new educational policy will definitely provide tailwind to the technical education.
- C) Scientists are worried about the tailwind originating from the Sun.
- a. A and B only
- b. B and C only
- c. C only
- d. A only
- e. B only

94. Directions: Read the following passage carefully and answer the questions that follow.

(+1, -0.25)

Excluding the volatile food and energy components, so-called core prices accelerated from a month earlier, rising by a larger-than-forecast 0.6%. The measure jumped 5.5% from a year earlier, the biggest advance since 1991. The increase in the CPI was led by higher prices for shelter and used vehicles. Food costs also contributed. Energy prices, which were a key driver of inflation through most of 2021, fell last month. The data bolster expectations that the Fed will begin raising interest rates in March, a sharp policy adjustment from the timeline projected just a few months ago. **Rock-solid** inflation has proven more stubborn and widespread than the central bank predicted amid unprecedented demand

for goods along with capacity constraints related to the supply of both labor and materials. Meanwhile, the unemployment rate has now fallen below 4%. Against this evolving backdrop, some Fed policy makers have said that it could be appropriate to begin shrinking the central bank's balance sheet soon after raising rates. Market expectations for Fed tightening expected in March and 2022 as a whole were largely unchanged after the report. Yields on 10-year Treasuries fluctuated while S&P 500 futures maintained gains and the dollar extended its decline on the day. *The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slided.* Food inflation climbed 0.5%, a slight deceleration from the previous month due to falling costs for meats. Shelter costs which are considered to be a more structural component of the CPI and make up about a third of the overall index—rose 0.4% from the prior month. Other gauges of home prices and rents have surged last year, likely presaging a sharp acceleration in the report's housing metrics this year and offering an enduring **tailwind** to inflation.

Choose the word which is most nearly the same in meaning of the word 'Rock-solid'.

- a. High
- b. Obnoxious
- c. Invariable
- d. Explicit
- e. Delectable

95. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

Excluding the volatile food and energy components, so-called core prices accelerated from a month earlier, rising by a larger-than-forecast 0.6%. The measure jumped 5.5% from a year earlier, the biggest advance since 1991. The increase in the CPI was led by higher prices for shelter and used vehicles. Food costs also contributed. Energy prices, which were a key driver of inflation through most of 2021, fell last month. The data bolster expectations that the Fed will begin raising interest rates in March, a sharp policy adjustment from the timeline

projected just a few months ago. **Rock-solid** inflation has proven more stubborn and widespread than the central bank predicted amid unprecedented demand for goods along with capacity constraints related to the supply of both labor and materials. Meanwhile, the unemployment rate has now fallen below 4%. Against this evolving backdrop, some Fed policy makers have said that it could be appropriate to begin shrinking the central bank's balance sheet soon after raising rates. Market expectations for Fed tightening expected in March and 2022 as a whole were largely unchanged after the report. Yields on 10-year Treasuries fluctuated while S&P 500 futures maintained gains and the dollar extended its decline on the day. *The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slid.* Food inflation climbed 0.5%, a slight deceleration from the previous month due to falling costs for meats. Shelter costs which are considered to be a more structural component of the CPI and make up about a third of the overall index—rose 0.4% from the prior month. Other gauges of home prices and rents have surged last year, likely presaging a sharp acceleration in the report's housing metrics this year and offering an enduring **tailwind** to inflation.

The italic sentence given in the passage may or may not contain any grammatical mistake. Find out which part of the sentence has an error and mark that part as your answer. Select "no error" if the sentence is error free.

- a. 0.4% from November
- b. the first monthly decline since April
- c. The energy index declined
- d. as gasoline prices slid
- e. No error

96. A sentence with some jumbled up words and a blank is given. You are required to rearrange the words and fill the blank to form a meaningful sentence. (+1, -0.25)

I took note of the **considerations (A)** of the automobile under the pressure of **evolution (B)** competition and observed that the value of a car had come to be _____ around certain **intensified (C)**.

- a. come - BCA
- b. resolved - CAB
- c. centered - BCA
- d. come - BAC
- e. resolve - ABC

97. A sentence with some jumbled up words and a blank is given. You are required to rearrange the words and fill the blank to form a meaningful sentence. (+1, -0.25)

If you are a **customer (A)**, the internet's promise of **cheaper (B)** prices and faster services can end your role of _____ the contact between the producer and **middleman(C)**.

- a. renewal - BCA
- b. breaking - CAB
- c. assisting - BCA
- d. breaking - BAC
- e. assisting - CBA

98. A sentence with some jumbled up words and a blank is given. You are required to rearrange the words and fill the blank to form a meaningful sentence. (+1, -0.25)

India will step forward where global **distress (A)** for food, grain and other materials are **demands (B)** and it will do it in a manner that is helpful to the global economy which will not take an _____ advantage of countries in **concerned (C)**.

- a. disproportionate - BCA
- b. undue - BCA

- c. any - BCA
- d. appropriate - BAC
- e. undue - CBA

99. A sentence with some jumbled up words and a blank is given. You are required to rearrange the words and fill the blank to form a meaningful sentence. (+1, -0.25)

In 2014 India **attempted (A)** one of the most **comprehensive (B)** and ambitious programs of urban _____ ever **introduced (C)** anywhere in the world.

- a. Management - BCA
- b. rejuvenation - BCA
- c. construction - BCA
- d. rejuvenation - CBA
- e. managing - CBA

100. In the following question two sentences are given which are fragmented into seven phrases denoted by (A), (B), (C), (D), (E), (F) and (G). By using all the seven phrases, each only once, you have to frame two meaningful and grammatically correct sentences. The correct order of the phrases is your answer. (+1, -0.25)

I) to work smoothly with professionals such as lawyers and accountant (A)/corporations can use the internet (B)/ who remain outside the company walls (C)

II) impact of terrorism is particularly (D)/ local economy (E)/ the long term(F)/ hard on the poor and on the(G)

- a. II-DFEG, I-BAC
- b. II- DGFE, I-BCA

- c. II-F DGE, I-BAC
- d. II- EGFD, I-ABC
- e. No arrangement required.

101. In the following question two sentences are given which are fragmented into seven phrases denoted by (A), (B), (C), (D), (E), (F) and (G). By using all the seven phrases, each only once, you have to frame two meaningful and grammatically correct sentences. The correct order of the phrases is your answer. (+1, -0.25)

I) it is a living example of journey from(A)/ is not a story only of a legal text and legal interpretation, (B) a turbulent past to a promising future (C) the story of Indian Constitution (D)

II) in primitive society was the barter system (G)/ where direct exchange of goods took place ((E) the initial form of trade (F)

- a. I-BCAD, II-GFE
- b. I-DABC, II-GEF
- c. I-DACE, II- FGE
- d. I-DBAC, II-FGE
- e. No rearrangement required.

102. In the following question two sentences are given which are fragmented into seven phrases denoted by (A), (B), (C), (D), (E), (F) and (G). By using all the seven phrases, each only once, you have to frame two meaningful and grammatically correct sentences. The correct order of the phrases is your answer. (+1, -0.25)

I) the 75 years is beckoned to (A)/ what we have achieved in (B)/ the direction in which the country is moving(C).

II) agreement between Government of India and Government of France on the purchase of (D)/ shall be governed by the security agreement (E)/ as per the

article 10 of the intergovernmental (F)/ Rafale aircraft, the protection of classified information(G)

- a. II-DGEF, I-BAC
- b. II-FDEG, I-ABC
- c. II-FDGE, I-ABC
- d. II-FDGE, I-BAC
- e. No rearrangement is required.

103. In the following question two sentences are given which are fragmented into seven phrases denoted by (A), (B), (C), (D), (E), (F) and (G). By using all the seven phrases, each only once, you have to frame two meaningful and grammatically correct sentences. The correct order of the phrases is your answer. (+1, -0.25)

I) challenges of post pandemic economic recovery(A)/ rising costs and the shrinking availability(B)/ the world is already struggling with(C)/ of fuel, of food and of fertilizers(D).

II) economies the world over are contracting and their(E)/ things are big different this time(F)/ economic forecasts are shrinking(G)

- a. I-BCDA, II-FEG
- b. I-CABD, II-FEG
- c. I-CABD, II-GFE
- d. I-ABDC, II-EGF
- e. No rearrangement required.

104. Direction: In the following question two columns are given containing three sentences each. In the first column A, B and C sentences are given with one blank in any of the sentences and in the second column D, E and F sentences are given. A sentence from the first column may or may not connect with a sentence (+1, -0.25)

from another column to form a grammatically and contextually correct match. You have to select the option that indicate the word which will be filled in the blank and pair/pairs of the sentences that can be joined to form a grammatically and contextually correct match.

column - I	column - II
(A) How the constitutional arrangement for sharing power work in reality depends to	(D) Such sex-selective abortion led to a decline in child sex ratio in the country to merely 919.
(B) The _____ of women among the highly paid and valued jobs is still very small.	(E) A large extent on how the ruling parties and leaders follow this arrangement.
(C) In many parts of India parents prefer to have sons and find ways to have girl child aborted before she is born.	(F) On an average an Indian woman works one hour more than an average man everyday. Yet much of her work is not paid and therefore often not valued.

- a. superiority, A-E, C-D
- b. control, B-E
- c. mention, A-E, B-D
- d. participation, C-D, B-F
- e. None of these.

105. Direction: In the following question two columns are given containing three sentences each. In the first column A, B and C sentences are given with one blank in any of the sentences and in the second column D, E and F sentences are given. A sentence from the first column may or may not connect with a sentence from another column to form a grammatically and contextually correct match. You have to select the option that indicate the word which will be filled in the blank and pair/pairs of the sentences that can be joined to form a grammatically and contextually correct match. (+1, -0.25)

column - I	column - II
(A) Germany, a powerful empire in the early years of the twentieth century, fought the first world war ----- the Austrian empire and against the allies.	(D) the process began many centuries ago; but under the colonial rule it become more systematic and extensive.
(B) The disappearance of forests is referred to as deforestation. It is not a recent problem.	(E) restricting villagers' access to forests. Now wood could only be cut for specified purposes and only for specific forests under close supervision.
(C) In the nineteenth century, when it become important to control territories and not just people, the Dutch enacted Forest law in Java,	(F) all joined the war enthusiastically hoping to gain from a quick victory. Little did they realize that the war would stretch on, eventually draining Europe all its resources.

- a. involving, A-F, C-E, B-D
- b. alongside, A-F, C-E
- c. with the help of, A-E, B-D
- d. beside, A-F, C-E
- e. None of these.

106. Direction: in the following question two columns are given containing three sentences each. In the first column A, B and C sentences are given with one blank in any of the sentences and in the second column D, E and F sentences are given. A sentence from the first column may or may not connect with a sentence from another column to form a grammatically and contextually correct match. You have to select the option that indicate the word which will be filled in the blank and pair/pairs of the sentences that can be joined to form a grammatically and contextually correct match. (+1, -0.25)

column - I	column - II
(A) The life history of the poor pastoralists who depended only on their livestock was different. Most often, they did not have the resources to _____bad times	(D) Yamanouchi Pharmaceuticals of Japan and Microsoft have made web-based information system an important part of improving quality and speed of answer to customers' technical questions.
(B) A group of several thousand people marched towards the eastern part of the city and stormed the fortress-prison, the Bastille,	(E) in times of war and famine, they lost nearly everything.
(C) Knowledge management can be used to make response to customers faster.	(F) where they hoped to find hoarded ammunition. In the armed fight that followed, the commander of the Bastille was killed and the prisoners released.

- a. combat, A-F, B-D
- b. safeguard, A-E, B-F, C-D
- c. face, A-D, B-F
- d. tide over, C-D, A-E
- e. None of these.

107. Direction: In the following question two columns are given containing three sentences each. In the first column A, B and C sentences are given with one blank in any of the sentences and in the second column D, E and F sentences are given. A sentence from the first column may or may not connect with a sentence from another column to form a grammatically and contextually correct sentence. You have to select the option that indicate the word which will be filled in the blank and pair/pairs of the sentences that can be joined to form a grammatically and contextually correct sentence. (+1, -0.25)

column - I	column - II
(A) Advertising today costs companies a lot of money. There are some companies - cold drinks, for example, who want everyone to see their advertising.	(D) But most companies want to get their advertising to one group of people or another. Toy companies want children or the parents of young children to see their advertising.
(B) The first challenge addressed by the new executive committee was to _____ the administrative organization of GM.	(E) Congratulating the country on this achievement, the health minister praised the remarkable progress in effectively lowering the MMR.
(C) In a new milestone, there has been a significant decline in the maternity mortality ratio (MMR) in the country.	(F) The company had historically been a decentralized collection of standalone businesses units, brought under the GM umbrella by William Durant.

- a. manage, A-E, B-D
- b. restructure, A-D, C-E
- c. examine, C-D, A-F
- d. restructuring, A-D, C-E, B-F
- e. None of these.

108. Direction: In the following passage Four blanks are given, each of which has been numbered. Against each number seven words are suggested, one or more than one of them can fill the blank appropriately. You have to select the option that contains the correct word/words. (+1, -0.25)

On Tuesday the White House announced that it will host the Summit for Democracy and as (1) by many experts China, the self proclaimed democratic nation, trying to put a spoke in US' (2) . China claims that in the country elections are regularly held after every 5 years for the country's parliament called National Peoples Congress but the actual meaning of democracy seems to be (3) to the

Chinese leaders because before contesting the election a candidate needs approval of the Chinese Communist Party (CCP). Only those who are member of the CCP or 8 smaller parties allied to it were allowed to contest election held in 2002-03 and the government always formed by the Communist Party. Clearly China do not want to adopt democracy, it just wants to display itself as a democratic nation because it is not a secret that democracy is the most prevalent form of government in the world today and China wants to (4) but superficially.

Which word(s) will be appropriate for (1)?

i) Discomfited.

ii) Anticipated.

iii) Deserved.

iv) Soothed.

v) Impaled.

vi) Expected.

vii) Entangled.

a. ii, vi and v only

b. iv and v only.

c. i, ii and vi only.

d. ii and vi only.

e. vi and v only.

-
109. Direction: In the following passage Four blanks are given, each of which has been numbered. Against each number seven words are suggested, one or more than one of them can fill the blank appropriately. You have to select the option that contains the correct word/words. (+1, -0.25)

On Tuesday the White House announced that it will host the Summit for Democracy and as (1) by many experts China, the self proclaimed democratic nation, trying to put a spoke in US' (2) . China claims that in the country elections are regularly held after every 5 years for the country's parliament called National Peoples Congress but the actual meaning of democracy seems to be (3) to the Chinese leaders because before contesting the election a candidate needs approval of the Chinese Communist Party (CCP). Only those who are member of the CCP or 8 smaller parties allied to it were allowed to contest election held in 2002-03 and the government always formed by the Communist Party. Clearly China do not want to adopt democracy, it just wants to display itself as a democratic nation because it is not a secret that democracy is the most prevalent form of government in the world today and China wants to (4) but superficially.

Which word(s) will be appropriate for (2)?

- i) Plan.
 - ii) Summit.
 - iii) Wheel.
 - iv) Interest.
 - v) Premises.
 - vi) Efforts.
 - vii) manifestation.
-
- a. i and ii only.
 - b. vi only.
 - c. iii only.
 - d. ii only.
 - e. i, ii and vi only.

110. Direction: In the following passage Four blanks are given, each of which has been numbered. Against each number seven words are suggested, one or more than one of them can fill the blank appropriately. You have to select the option that contains the correct word/words. (+1, -0.25)

On Tuesday the White House announced that it will host the Summit for Democracy and as (1) by many experts China, the self proclaimed democratic nation, trying to put a spoke in US' (2). China claims that in the country elections are regularly held after every 5 years for the country's parliament called National Peoples Congress but the actual meaning of democracy seems to be (3) to the Chinese leaders because before contesting the election a candidate needs approval of the Chinese Communist Party (CCP). Only those who are member of the CCP or 8 smaller parties allied to it were allowed to contest election held in 2002-03 and the government always formed by the Communist Party. Clearly China do not want to adopt democracy, it just wants to display itself as a democratic nation because it is not a secret that democracy is the most prevalent form of government in the world today and China wants to (4) but superficially.

Which word(s) will be appropriate for (3)?

- i) Scourge.
 - ii) Pretentious.
 - iii) Fundamental.
 - iv) Greek.
 - v) Indigenous.
 - vi) Incomprehensible.
 - vii) Agreeable.
- a. vi only.
 - b. i and iii only
 - c. iii and vi only.
 - d. i and vi only.

e. iv and vi only.

111. Direction: In the following passage Four blanks are given, each of which has been numbered. Against each number seven words are suggested, one or more than one of them can fill the blank appropriately. You have to select the option that contains the correct word/words. (+1, -0.25)

On Tuesday the White House announced that it will host the Summit for Democracy and as (1) by many experts China, the self proclaimed democratic nation, trying to put a spoke in US' (2) . China claims that in the country elections are regularly held after every 5 years for the country's parliament called National Peoples Congress but the actual meaning of democracy seems to be (3) to the Chinese leaders because before contesting the election a candidate needs approval of the Chinese Communist Party (CCP). Only those who are member of the CCP or 8 smaller parties allied to it were allowed to contest election held in 2002-03 and the government always formed by the Communist Party. Clearly China do not want to adopt democracy, it just wants to display itself as a democratic nation because it is not a secret that democracy is the most prevalent form of government in the world today and China wants to (4) but superficially.

Which word(s) will be appropriate for (4)?

- i) Block it.
 - ii) Balance it.
 - iii) persuade.
 - iv) Harp on the same string.
 - v) Outlaw.
 - vi) Compensate.
 - vii) Jump on the bandwagon.
- a. i only.
 - b. vii only.
 - c. i and v only.

d. i, ii and v only.

e. ii only.

112. Directions: In the following questions two columns are given. In column-I three sentences are given, each of them consists a blank which may or may not be filled with sentence or word provided in column-II. You are required to fill the blanks in the sentence to make it meaningful and grammatically correct. (+1, -0.25)

Column-I	Column-II
(E) India _____ saving lives and livelihoods by its willingness to take short-term pain for long-term gain.	(i) standstill
(F) The lockdowns and social distancing norms brought the already slowing global economy to a _____.	(ii) focused in
(G) India was the only country among _____ markets to receive equity FII inflows in 2020.	(iii) emerging

- a. G-(iii) and E-(ii)
b. F-(i) only
c. E-(ii) F-(i) and G-(iii)
d. F-(i) and G-(iii)
e. G-(iii) only

113. Directions: In the following questions two columns are given. In column-I three sentences are given, each of them consists a blank which may or may not be filled with sentence or word provided in column-II. You are required to fill the blanks in the sentence to make it meaningful and grammatically correct. (+1, -0.25)

Column-I	Column-II
(E) The economic shock of the pandemic has been _____ well by the commercial banking system.	(i) indicators
(F) Macroeconomic stability _____ suggest that the Indian economy is well placed to take on the challenges of 2022-23.	(ii) weathered
(G) 44 Indian start-ups have _____ unicorn status in 2021 taking overall tally of unicorns to 83.	(iii) achieved

- a. E-(ii), F-(i) and G-(iii)
- b. G-(iii) only
- c. E-(ii) only
- d. G-(ii) and G-(iii)
- e. E-(ii) and G-(ii) only

114. Directions: In the following questions two columns are given. In column-I three sentences are given, each of them consists a blank which may or may not be filled with sentence or word provided in column-II. You are required to fill the blanks in the sentence to make it meaningful and grammatically correct.

(+1, -0.25)

Column-I	Column-II
(E) Doctors understand the need to control costs but feel _____ in rules and layers of management.	(i) benefits
(F) Customers are the main people who _____ from the increased efficiency of information technology.	(ii) battle
(G) For the past few days, Assam is also _____ great challenges and difficulties in the form of floods.	(iii) buried

- a. F-(i) only
- b. F-(ii) and G-(ii) only

- c. F-(i), E-(iii) and G-(ii)
- d. E-(iii) only
- e. G-(ii) only

115. Directions: In the following questions two columns are given. In column-I three sentences are given, each of them consists a blank which may or may not be filled with sentence or word provided in column-II. You are required to fill the blanks in the sentence to make it meaningful and grammatically correct. (+1, -0.25)

Column-I	Column-II
(E) Our seas and coastal borders are great _____ of our economic self-reliance and also provide impetus to it.	(i) engineering
(F) You will be happy to know that our government has _____ the compliances, which were hindering the ease of doing business.	(ii) custodians
(G) every sector related to our growth engine is _____ at full capacity today.	(iii) abolished

- a. E-(i)
- b. F- (iii) and G - (i)
- c. E-(ii) and F- (iii)
- d. G - (iii) only
- e. None of these.

116. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

As the COVID-19 pandemic worsened in countries across the globe, most governments took the precaution of closing their schools in an attempt to contain the spread of the virus. In Japan, each week of school closures represents

about 22 hours of face-to-face compulsory instruction time at lower secondary school.

The capacity of schools to innovate, adapt and support staff varies from country to country and school to school. Yet it is these school capacities that can prove to be valuable assets for responding to crises and uncertain times, as well as building resilience when facing challenges in delivering instruction. School closures have forced many schools to “(_____)” and come up with innovative and pragmatic solutions in order to deliver teaching and ensure learning can happen remotely. The good news is that in spite of the challenges that the transition to remote teaching may have entailed for some teachers, a climate of openness to innovation was present in most OECD schools. School leaders and teachers may also be able to tap into online resources that could facilitate the dissemination of information, instructional material and remote learning across schools. For example, familiarity with online training can prepare teachers for communicating and sharing information with the school community through online platforms. In Japan, 9% of teachers participated in online courses/seminars in the 12 months prior to the survey, which is lower than the average of the OECD countries participating in TALIS (36%). These online courses/seminars **proved to be very helpful** for the teachers during the crisis. Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access to these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result. The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis due to similar needs by parents for teleworking, and siblings for home schooling.

The relationship between schools, parents and the larger school community is vital to provide contextualised and pertinent quality education. An open and fluid interaction between the school staff and parents has become now more important than ever.

Which of the following phrases can fill the blank given in the passage?

- a. Come to a halt.

- b. Think that every cloud has a silver lining.
- c. Think outside the box
- d. Dot the i's and cross the t's.
- e. Gain ground.

117. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

As the COVID-19 pandemic worsened in countries across the globe, most governments took the precaution of closing their schools in an attempt to contain the spread of the virus. In Japan, each week of school closures represents about 22 hours of face-to-face compulsory instruction time at lower secondary school. The capacity of schools to innovate, adapt and support staff varies from country to country and school to school. Yet it is these school capacities that can prove to be valuable assets for responding to crises and uncertain times, as well as building resilience when facing challenges in delivering instruction. School closures have forced many schools to “(_____)” and come up with innovative and pragmatic solutions in order to deliver teaching and ensure learning can happen remotely. The good news is that in spite of the challenges that the transition to remote teaching may have entailed for some teachers, a climate of openness to innovation was present in most OECD schools. School leaders and teachers may also be able to tap into online resources that could facilitate the dissemination of information, instructional material and remote learning across schools. For example, familiarity with online training can prepare teachers for communicating and sharing information with the school community through online platforms. In Japan, 9% of teachers participated in online courses/seminars in the 12 months prior to the survey, which is lower than the average of the OECD countries participating in TALIS (36%). These online courses/seminars **proved to be very helpful** for the teachers during the crisis. Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access to these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result. The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists

at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis due to similar needs by parents for teleworking, and siblings for home schooling.

The relationship between schools, parents and the larger school community is vital to provide contextualised and pertinent quality education. An open and fluid interaction between the school staff and parents has become now more important than ever.

What does the author want to convey by citing " An open and fluid interaction between the school staff and parents has become now more important than ever."?

- a. Interaction between the school staff and parents is necessary to facilitate the dissemination of information and instructional material.
- b. Such interactions are intended to decide who will take responsibility of students' academic performance during online learning.
- c. During the pandemic digital devices play an important role in holistic development of students and therefore school staff should organize a seminar for parents to teach them how to use this technology.
- d. Students from socio-economically disadvantaged backgrounds may be severely affected by the COVID-19 crisis hence to drag them back in the mainstream education an open and fluid interaction between the school staff and parents is necessary.
- e. This period of crisis can either strain or strengthen the relationship between parents and school staff and therefore it is necessary to for both of them to communicate and cooperate with each other for a healthy educational system.

118. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

As the COVID-19 pandemic worsened in countries across the globe, most governments took the precaution of closing their schools in an attempt to contain the spread of the virus. In Japan, each week of school closures represents about 22 hours of face-to-face compulsory instruction time at lower secondary school.

The capacity of schools to innovate, adapt and support staff varies from country to country and school to school. Yet it is these school capacities that can prove to be valuable assets for responding to crises and uncertain times, as well as building resilience when facing challenges in delivering instruction. School closures have forced many schools to “(_____)” and come up with innovative and pragmatic solutions in order to deliver teaching and ensure learning can happen remotely. The good news is that in spite of the challenges that the transition to remote teaching may have entailed for some teachers, a climate of openness to innovation was present in most OECD schools. School leaders and teachers may also be able to tap into online resources that could facilitate the dissemination of information, instructional material and remote learning across schools. For example, familiarity with online training can prepare teachers for communicating and sharing information with the school community through online platforms. In Japan, 9% of teachers participated in online courses/seminars in the 12 months prior to the survey, which is lower than the average of the OECD countries participating in TALIS (36%). These online courses/seminars **proved to be very helpful** for the teachers during the crisis. Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access to these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result. The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis due to similar needs by parents for teleworking, and siblings for home schooling. The relationship between schools, parents and the larger school community is vital to provide contextualised and pertinent quality education. An open and fluid interaction between the school staff and parents has become now more important than ever.

What, according to the author, are the requirements for quality education?

- A) Well structured syllabus
- B) Capacity building.
- C) Financial assistance.

- D) Digital device.
- E) Suitable environment.
- a. A and C only.
- b. B, C and D only.
- c. B, D and E only.
- d. C only
- e. A, B, C and D only.

119. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

As the COVID-19 pandemic worsened in countries across the globe, most governments took the precaution of closing their schools in an attempt to contain the spread of the virus. In Japan, each week of school closures represents about 22 hours of face-to-face compulsory instruction time at lower secondary school.

The capacity of schools to innovate, adapt and support staff varies from country to country and school to school. Yet it is these school capacities that can prove to be valuable assets for responding to crises and uncertain times, as well as building resilience when facing challenges in delivering instruction. School closures have forced many schools to “(_____)” and come up with innovative and pragmatic solutions in order to deliver teaching and ensure learning can happen remotely. The good news is that in spite of the challenges that the transition to remote teaching may have entailed for some teachers, a climate of openness to innovation was present in most OECD schools. School leaders and teachers may also be able to tap into online resources that could facilitate the dissemination of information, instructional material and remote learning across schools. For example, familiarity with online training can prepare teachers for communicating and sharing information with the school community through online platforms. In Japan, 9% of teachers participated in online courses/seminars in the 12 months prior to the survey, which is lower than the average of the OECD countries participating in TALIS (36%). These online courses/seminars **proved to be very helpful** for the teachers during the crisis. Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the

necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access to these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result. The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis due to similar needs by parents for teleworking, and siblings for home schooling.

The relationship between schools, parents and the larger school community is vital to provide contextualised and pertinent quality education. An open and fluid interaction between the school staff and parents has become now more important than ever.

Which of the following is definitely true in the context of the passage?

- A) All the educational institutions across the globe are facing the same challenges.
- B) The chaotic situation opened up new vistas for teachers.
- C) Education through online platform is equally beneficial for all the students.
- D) Education of those who have access to digital devices remained unaffected.

- a. A and D only
- b. B only.
- c. A, B and C only
- d. C only
- e. D only

120. Directions: Read the following passage carefully and answer the questions that follow. (+1, -0.25)

As the COVID-19 pandemic worsened in countries across the globe, most governments took the precaution of closing their schools in an attempt to

contain the spread of the virus. In Japan, each week of school closures represents about 22 hours of face-to-face compulsory instruction time at lower secondary school.

The capacity of schools to innovate, adapt and support staff varies from country to country and school to school. Yet it is these school capacities that can prove to be valuable assets for responding to crises and uncertain times, as well as building resilience when facing challenges in delivering instruction. School closures have forced many schools to “(_____)” and come up with innovative and pragmatic solutions in order to deliver teaching and ensure learning can happen remotely. The good news is that in spite of the challenges that the transition to remote teaching may have entailed for some teachers, a climate of openness to innovation was present in most OECD schools. School leaders and teachers may also be able to tap into online resources that could facilitate the dissemination of information, instructional material and remote learning across schools. For example, familiarity with online training can prepare teachers for communicating and sharing information with the school community through online platforms. In Japan, 9% of teachers participated in online courses/seminars in the 12 months prior to the survey, which is lower than the average of the OECD countries participating in TALIS (36%). These online courses/seminars **proved to be very helpful** for the teachers during the crisis. Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access to these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result. The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis due to similar needs by parents for teleworking, and siblings for home schooling.

The relationship between schools, parents and the larger school community is vital to provide contextualised and pertinent quality education. An open and fluid interaction between the school staff and parents has become now more important than ever.

Which of the following phrase can replace the phrase given in bold in the passage?

- a. Weal and woe.
- b. Cloven hoof.
- c. Yeoman's service.
- d. Come in handy.
- e. Pass the buck.

Prepp

Your Personal Exams Guide

Data Analysis & Interpretation

121. **Directions:** Given table below shows the data about the cost price, the marked price, and the selling price of 4 articles (A, B, C, and D) sold by a trader. (+2, -0.5)

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

Note: The profit made on article D is Rs. 200 and the discount offered on article C is 20%.

Find the difference between the discounts given on articles A and C.

- a. Rs. $X^2 - Y^2 + XY$
- b. Rs. $XY/5$
- c. Rs. $2X + 3Y^2$
- d. Rs. $X + Y + 220$
- e. Rs. $100Y/X$

122. **Directions:** Given table below shows the data about the cost price, the marked price, and the selling price of 4 articles (A, B, C, and D) sold by a trader. (+2, -0.5)

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

Note: The profit made on article D is Rs. 200 and the discount offered on article C is 20%.

What is the percentage profit made on the sale of articles B and D together?

- a. $XY/3\%$
- b. $(X^2 - Y - XY)/3\%$
- c. $(3XY - Y^2)\%$
- d. $(X^2 - Y^2 - 5Y)/3\%$
- e. None of these

123. **Directions:** Given table below shows the data about the cost price, the marked price, and the selling price of 4 articles (A, B, C, and D) sold by a trader. (+2, -0.5)

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

Note: The profit made on article D is Rs. 200 and the discount offered on article C is 20%.

What is the average of the total profits obtained after sale of all four articles?

- a. Rs. $XY + 2X$
- b. Rs. $12X - 1.5Y$
- c. Rs. $4X + 5Y + 20$
- d. Rs. $35 \times (X - Y)$
- e. None of these

124. **Directions:** Given table below shows the data about the cost price, the marked price, and the selling price of 4 articles (A, B, C, and D) sold by a trader. (+2, -0.5)

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

Note: The profit made on article D is Rs. 200 and the discount offered on article C is 20%.

Find the percentage of the overall discount given on sale of all four articles together.

- a. $6X/7\%$
- b. $6Y/7\%$
- c. $(4X - 10)/7\%$
- d. $(4Y - 10)/7\%$
- e. None of these

125. A hollow Cylinder (C1) is full of water with a radius of 14cm and another cylinder (C2) with a radius of 7cm is placed inside the C1, then the quantity of water, which remain in the cylinder (C1) is 9240cm^3 . The height of both cylinders (C1) and (C2) is the same. (+2, -0.5)

Find the height of the cylinders? (in cm)

- a. 10cm
- b. 11cm
- c. 14cm
- d. 20cm
- e. 25cm

126. A hollow Cylinder (C1) is full of water with a radius of 14cm and another cylinder (C2) with a radius of 7cm is placed inside the C1, then the quantity of water, which remain in the cylinder (C1) is 9240cm^3 . The height of both cylinders (C1) and (C2) is the same. (+2, -0.5)

If the radius of cylinder (C2) increased by 3.5cm, and the height of both cylinders will remain the same, then how much more quantity of water will remain in the cylinder (C1)?

- a. 4070cm^3
- b. 3850cm^3
- c. 5390cm^3
- d. 4850m^3
- e. None of the above

127. **Directions:** Answer the question based on the information given below: (+2, -0.5)

Stella, Tom, and Charlie started their journey at 8 a.m., 9 a.m., and 10 a.m. respectively. The ratio of the speed of Stella, Tom, and Charlie is $s:1.25s:0.5s$ respectively. After starting his journey Tom meets Stella after 4 hours. After meeting each other both of them returned to Charlie.

If the speed of Tom is 4kmph, then how much distance Tom will travel from his starting point in 5 hours?

- a. 20km
- b. 15km
- c. 12km
- d. 16km
- e. None of these

128. Directions: Answer the question based on the information given below: (+2, -0.5)

Stella, Tom, and Charlie started their journey at 8 a.m., 9 a.m., and 10 a.m. respectively. The ratio of the speed of Stella, Tom, and Charlie is $s:1.25s:0.5s$ respectively. After starting his journey Tom meets Stella after 4 hours. After meeting each other both of them returned to Charlie.

At what time Tom will meet Charlie?

- a. 2pm
- b. 3pm
- c. 3.30pm
- d. 1pm
- e. None of these

129. The question consists of three statements numbered "I", "II", and "III" given below it. (+2, -0.5)
You have to decide whether the data provided in the statements are sufficient to

answer the question or not and choose the correct option accordingly.

The speed of the boat traveling upstream is 24km/hr. The boat can travels P km in Q hours while traveling upstream and 144 km in Q hours while traveling downstream. Time taken by the boat to travel 216 km upstream in R hours more than that while traveling the same distance downstream. What is the ratio of the speed of the stream and the speed of the boat respectively?

Statement I: $P - Q^3 + R^3 > 102$

Statement II: Time taken by boat to cover (P^2) km distance downstream is 18 hours.

Statement III: $P + Q + R > 14$

- a. The data given in Statement I alone is sufficient to answer the question
- b. The data given in Statement II alone is sufficient to answer the question
- c. The data given in Statement III alone is sufficient to answer the question
- d. The data given either in Statement I alone or Statement II alone is sufficient to answer the question
- e. None of these

130. The question consists of three statements numbered "I", "II", and "III" given below it. (+2, -0.5)
You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly.

What is the difference between MP of Article A and SP of Article B?

Statement I: CP of Article A is 224 less than the SP of Article B. Discount given in Article A is 30% and the profit earned in Article B is 40%.

Statement II: SP of Article A is Rs. 140 more than Article B. On Article A, a markup of Rs. 264 is given.

Statement III: Discount allowed on Article B is Rs. 56 more than the profit earned on Article A.

- a. The data given in Statement I and Statement II together is sufficient to answer the question
- b. The data given in Statement III alone is sufficient to answer the question
- c. The data given in Statement II alone is sufficient to answer the question
- d. The data given in Statement I alone is sufficient to answer the question
- e. None of these

131. The question consists of three statements numbered "I", "II", and "III" given below it. You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly. (+2, -0.5)

Two mixtures (A and B) are in the ratio of 3: 2. Mixture A contains $x\%$ of milk and $a\%$ of water. Mixture B contains $y\%$ of milk and $b\%$ of water. If mixture B is mixed with mixture A, then the final quantity of milk becomes 23% of the total mixture. Find the quantity of milk in final quantity, if $(x + y) = 45$

Statement I: $(x - y) = 5$

Statement II: The initial quantity of mixture A is 60 litres.

Statement III: if 15litre of mixture is taken out of mixture A and mixed with mixture B, then the total quantity of water in mixture B is 43.25 litres.

- a. The data given in either Statement II alone or Statement III alone is sufficient
- b. The data given in Statement II and Statement III together is sufficient to answer the question
- c. The data given in Statement I and Statement III together is sufficient to answer the question
- d. The data given in Statement I alone is sufficient to answer the question
- e. The data given in Statement II alone is sufficient to answer the question

132. A right circular cylindrical tank of radius 'R' meters and height $(R + 7)$ meters contains oil. The entire quantity of oil is taken out from the cylindrical tank and poured into 'N' number of hemispherical bowls, such that each bowl is filled with its maximum capacity. If the maximum capacity of each bowl is $11R^3 / 42 \text{ m}^3$, then which of the following (i, ii, iii, and iv) are the possible values of 'N'? (R and N are positive integers). (+2, -0.5)
- i. 13
 - ii. 8
 - iii. 16
 - iv. 17
- a. Only i and ii
 - b. Only i, ii, and iv
 - c. Only i and iii
 - d. Only iii
 - e. None of these

133. Direction: From the two pie charts given below, pie chart (A) provides the percentage distribution of the runs scored by the three batsmen and pie chart (B) provides the percentage distribution of the of the balls faced by the same batsmen. (+2, -0.5)

Chart (A) : Runs scored

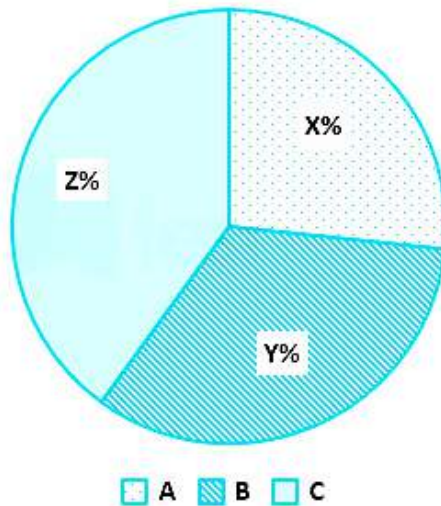
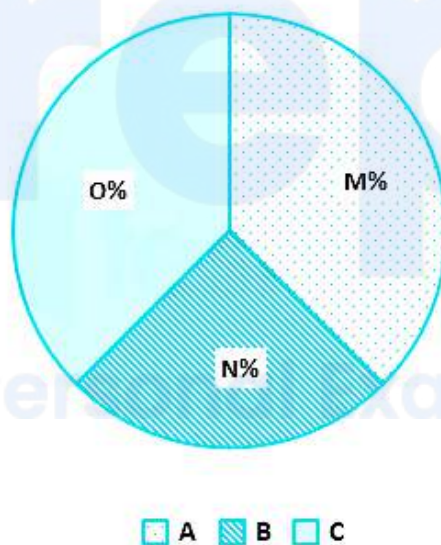


Chart (B) : Balls faced



The strike rate of a batsmen = $\left(\frac{\text{Total runs scored}}{\text{Total number of balls faced}} \right) \times 100$

Note:

- 1) The total number of balls faced by B is 180 and his strike rate is 33.33% in a match.
- 2) The total number of balls played by C is 50% less than the total number of balls played by A and the central angle Z° is 198°.

3) The strike rate of A is 25.

4) If A played the the same number of balls as that of B, then his strike rate is twice the strike rate of B.

If the total number of balls faced by A is same as the balls faced by C, and the total number of runs scored by B is same as the total number of runs scored by C, find the difference between the strike rates of B and A?

- a. 1100/9%
- b. 50%
- c. 550/9%
- d. 650/9%
- e. None of the above

134. Direction: From the two pie charts given below, pie chart (A) provides the percentage distribution of the runs scored by the three batsmen and pie chart (B) provides the percentage distribution of the of the balls faced by the same batsmen. (+2, -0.5)

Chart (A) : Runs scored

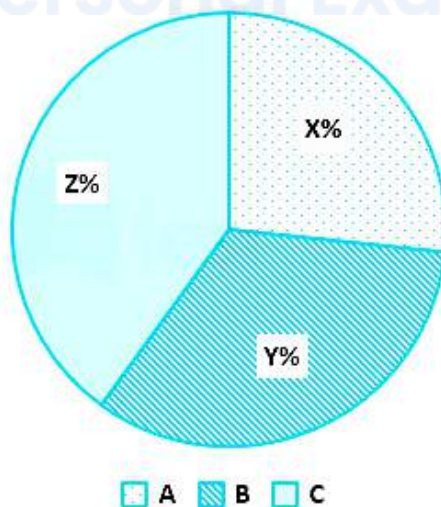
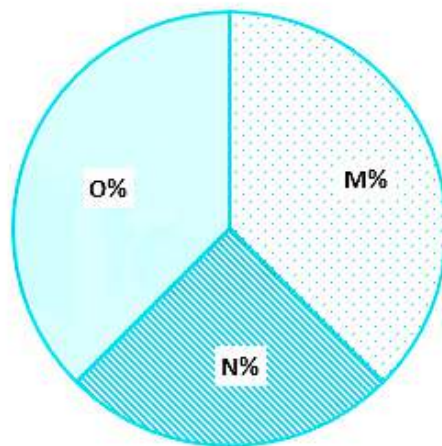


Chart (B) : Balls faced



■ A ■ B ■ C

The strike rate of a batsmen = $\left(\frac{\text{Total runs scored}}{\text{Total number of balls faced}}\right) \times 100$

Note:

- 1) The total number of balls faced by B is 180 and his strike rate is 33.33% in a match.
- 2) The total number of balls played by C is 50% less than the total number of balls played by A and the central angle Z° is 198°.
- 3) The strike rate of A is 25.
- 4) If A played the same number of balls as that of B, then his strike rate is twice the strike rate of B.

If C is dealing only in boundaries (fours and sixes) and he had hit 25 fours in his innings, find the total number of dot balls in his whole innings?

- a. 169
- b. 195
- c. 189

d. 149

e. 144

135. Direction: From the two pie charts given below, pie chart (A) provides the percentage distribution of the runs scored by the three batsmen and pie chart (B) provides the percentage distribution of the of the balls faced by the same batsmen. (+2, -0.5)

Chart (A) : Runs scored

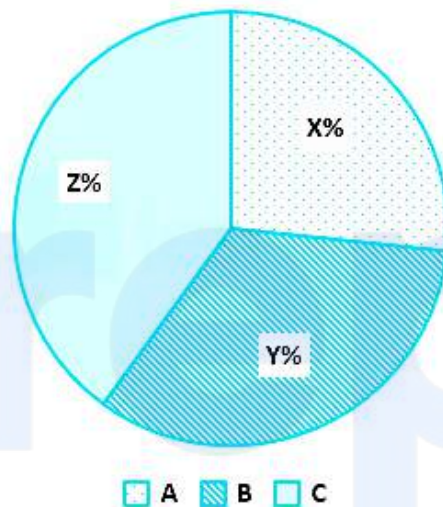
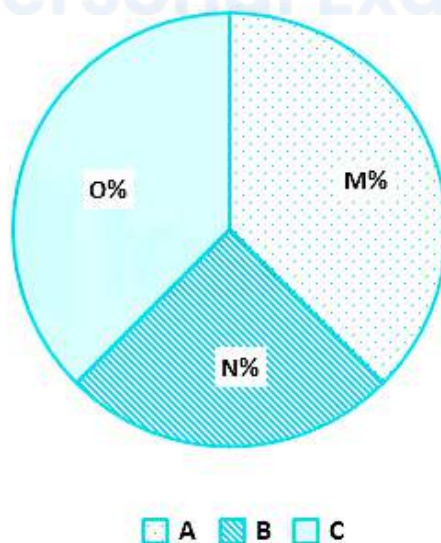


Chart (B) : Balls faced



The strike rate of a batsmen = $(\text{Total runs scored} / \text{Total number of balls faced}) \times 100$

Note:

- 1) The total number of balls faced by B is 180 and his strike rate is 33.33% in a match.
- 2) The total number of balls played by C is 50% less than the total number of balls played by A and the central angle Z° is 198°.
- 3) The strike rate of A is 25.
- 4) If A played the same number of balls as that of B, then his strike rate is twice the strike rate of B.

Find the difference between the central angles made by the total number of runs scored A and the total number of balls faced by B?

- a. 36°
- b. 72°
- c. 54°
- d. 64°
- e. None of the above

136. The question consists of three statements numbered "I", "II", and "III" given below it. (+2, -0.5)
You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly.

Who is the elder person between A and C?

Statement I: The age of A after sixteen years is equal to the summation of the ages of $\frac{3}{4}$ th of the present age of C and $\frac{3}{5}$ th of the present age of B.

Statement II: B is 27 years elder than his son and A is 32 years elder than B's son.

Statement III: Six fifth of the present age of A is equal to the age of C 8 years hence.

- a. Only Statement I is sufficient
- b. Only Statement I and II together are sufficient
- c. Both Statement I and Statement II together are sufficient
- d. Statement I, II and III are together is sufficient
- e. All the statements together are not sufficient

137. The cost price of an article is Rs. P and the article is marked up by Q%. The shopkeeper gave a discount of 25% because of which the profit earned is Rs. (Q + 20). If the article is marked up by (Q + 5)% and the same percentage of discount is given, the profit earned is Rs. (Q + 65), then which of the statement(s) is/are correct? (+2, -0.5)

- a. $0.25P = 1.2Q - 13^2$
- b. $0.5P = 15Q$
- c. $P = 30 + 22Q$
- d. $P = 20Q$
- e. None of the above

138. **Directions:** Answer the question based on the information given below: (+2, -0.5)

X men can complete a work in Y days. Y women can complete the work in X days. 20 men and 16 women working together can complete the same work in $53 \frac{1}{3}$ days.

20 men and 24 women started working together. They worked together for 0.6D days. After that B number of boys did the work in 0.45D days, then the whole work is completed which B number of boys can complete it in D days. What is the value of D?

- a. 42

- b. 40
- c. 36
- d. 45
- e. None of these

139. Directions: Answer the question based on the information given below: (+2, -0.5)

X men can complete a work in Y days. Y women can complete the work in X days.
20 men and 16 women working together can complete the same work in $53 \frac{1}{3}$ days.

(G + 24) girls and (10 men and 14 women) together can complete the work in 16 days. If G girls worked together the same work would have completed in 26 days. What is the value of G?

- a. 75
- b. 65
- c. 70
- d. 80
- e. None of these

140. Directions: Answer the question based on the information given below: (+2, -0.5)

X men can complete a work in Y days. Y women can complete the work in X days.
20 men and 16 women working together can complete the same work in $53 \frac{1}{3}$ days.

15 Men and 12 Women can complete the work in how many days?

- a. $72 \frac{2}{5}$
- b. $72 \frac{1}{5}$

c. $71\frac{3}{7}$

d. $71\frac{1}{9}$

e. $75\frac{1}{3}$

141. Aman, Preeti, and Shristi started a partnership with an investment of Rs. $X - 1200$, Rs. X and Rs. $X + 1800$ respectively. If the profit of Preeti is invested in a scheme at the rate of 18% p.a simple interest for 5 years, then the interest received is Rs. 3600. If the total profit of the business is Rs. 4800 more than twice the profit of Preeti, then which of the following statement(s) is/are true? (+2, -0.5)

I. Sum of the Investment of Aman and Preeti is equal to the investment of Shristi

II. Value of X is a multiple of 18

III. Aman gets 18.75% of the total profit

a. Only I and II

b. Only II and III

c. Only I

d. Only I and III

e. All I, II, and III

142. a , b , and c are three integers. The sum of a and b is 61. If b is divided by a , then the quotient is 2 and the remainder is 7. If $c^n - 2$ is the largest value of the negative integer. Then which of the following will definitely lie within $(c^n - n + a)$ and $(b - a)$? (+2, -0.5)

a. 15

b. 11

c. 28

d. 23

e. 43

143. The question consists of three statements numbered "I", "II", and "III" given below it. (+2, -0.5)
You have to decide whether the data provided in the statements are sufficient to answer the question or not and choose the correct option accordingly.

Two boats A and B are rowing in two different rivers M and N respectively. Find the distance covered by Boat B in 12 hours traveling downstream.

Statement I: Boat B can cover 96km upstream in 4 hours. Two boats A and B can cover 360km downstream in 6 hours.

Statement II: Speed of Streams in both the rivers is 7 hours

Statement III: The distance covered by Boat B in Y hours downstream is 150km more than the distance covered by Boat B in (Y + 5) traveling upstream.

- a. The data given in Statement I alone is sufficient to answer the question
- b. The data given in Statement I and Statement II together is sufficient to answer the question
- c. The data given in Statement II and Statement III together is sufficient to answer the question
- d. The data given in Statement I and Statement III together is sufficient to answer the question
- e. None of these

144. **Directions:** Answer the question based on the information given below: (+2, -0.5)

Three persons P, Q, and R started their journey at 9: 30 a.m, 11: 00 a.m., and 2:00 p.m. respectively. The speed of Q is 5^2 m/sec. Q reached the destination on the same day at 7: 30 p.m. Q is the fastest person and R is not the slowest person.

The speed of P is 15% less than the speed of Q, then at what, time P will reach his destination?

- I. After 6 hours with respect to Q
 - II. At 7: 30 p.m.
 - III. After 7 hours with respect to R
- a. Only I
 - b. Only II
 - c. Only III
 - d. Only I and II
 - e. None of these

145. Directions: Answer the question based on the information given below:

(+2, -0.5)

Three persons P, Q, and R started their journey at 9: 30 a.m, 11: 00 a.m., and 2:00 p.m. respectively. The speed of Q is 5^2 m/sec. Q reached the destination on the same day at 7: 30 p.m. Q is the fastest person and R is not the slowest person.

Which of the following statement(s) can be true?

- I. R reached his destination in 5 hours and P reached his destination in 3 hours
 - II. R reached his destination in 3 hours and P reached his destination in 5 hours
 - III. If the distance increased by 90km, and the speed of P is $\frac{1}{5}$ th of the speed of Q, then R reached the new distance at 3: 30 p.m.
- a. Only I
 - b. Only II
 - c. Only III
 - d. Only I and II
 - e. None of these

146. Given below there are three number series (I, II, and III). One of the numbers in each series (I, II, and III) is wrong or (odd one out). (+1, -0.25)

Series I: 590, 615, 651, 711, 795, 927

Series II: 64, 164, 285, 510, 546, 770

Series III: 18, 25.5, 40.5, 63, 93, 131

If the correct number of the series (i), (ii), and (iii) are represented as (X, Y, and Z) respectively, then which of the following equations is/are **not** correct?

I. $(X - Z) + 5 = Y - 15^2 + 2$

II. $(25^2 - Y) = (X + Z) - 785$

III. $Z + 300 - (X + Y) = 940$

- a. Only I
- b. Only II
- c. Only I and III
- d. Only III
- e. None of the above

147. Given below there are three number series (I, II, and III). One of the numbers in each series (I, II, and III) is wrong or (odd one out). (+1, -0.25)

Series I: 590, 615, 651, 711, 795, 927

Series II: 64, 164, 285, 510, 546, 770

Series III: 18, 25.5, 40.5, 63, 93, 131

If the wrong number of the series (i), (ii), and (iii) are represented as (P, Q, and R) respectively, then which of the following equations is/are correct?

a. $Q - (P + R) = 40$

- b. $P < Q > R$
- c. $(R + P) < Q$
- d. Both 1 and 3
- e. Both 2 and 3

148. Given below there are three number series (I, II, and III). One of the numbers in each series (I, II, and III) is wrong or (odd one out). (+1, -0.25)

Series I: 590, 615, 651, 711, 795, 927

Series II: 64, 164, 285, 510, 546, 770

Series III: 18, 25.5, 40.5, 63, 93, 131

Another number series, whose first term is 23, follows the same logic as followed in series (ii). L and K are the fifth and third terms of the new series respectively, then what is the value of $(L - K)$?

- a. 225
- b. 275
- c. 290
- d. 288
- e. 280

149. **Directions:** Answer the question based on the information given below: (+1, -0.25)

Solve the given equations and answer the questions based on it.

- A. $(a \times a) - 3a - \sqrt{4a^2} = -6$
- B. $((b^2) - \sqrt{81b^2}) = -4 \times (5)$
- C. $(c^2 \sqrt{625c^6}) / 5c^3 + (4 \times 7) = 39c$
- D. $d^2 - (3 \times 5)d = \{7 \times (-8)\}$

Find the LCM of all the larger roots of the equations A, B, C, and D.

- a. 720
- b. 120
- c. 360
- d. 840
- e. None of these

150. **Directions:** Answer the question based on the information given below: (+1, -0.25)

Solve the given equations and answer the questions based on it.

- A. $(a \times a) - 3a - \sqrt{4a^2} = -6$
- B. $((b^2) - \sqrt{81b^2}) = -4 \times (5)$
- C. $(c^2 \sqrt{625c^6}) / 5c^3 + (4 \times 7) = 39c$
- D. $d^2 - (3 \times 5)d = \{7 \times (-8)\}$

In which of the given equation(s) the difference between larger root and smaller root is 1?

- a. Only B and D
- b. Only A and B
- c. Only A and D
- d. Only A, B, and D
- e. All A, B, C, and D

151. Solve the given equations and answer the question. (+1, -0.25)

I. $\sqrt{(100x^4 + 125x^4)} + 7x + 4^{1/2} = -4x$

II. ${}^3\sqrt{(64y^3)} \times 2y + 19y + 7^2 = -3y + \sqrt{1600}$

If the smallest root of equation II is multiplied by 2, then which among the following(s) is/are true?

- (i) Resultant $> (-4)$
- (ii) Resultant $+ 21(1/2) = \text{Multiple of } 5$
- (iii) Resultant is less than the smallest root of equation I

- a. Only iii
- b. Only i
- c. Only ii
- d. Only ii and iii
- e. All i, ii, and iii

152. **Directions:** Answer the question based on the information given below:

(+1, -0.25)

The table below shows the percentage of poems published out of the total poems and stories published from 2011 till 2013 and the number of poems published starting from 2011 till 2013.

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published
2011	M%	702
Till 2012	N%	1640
Till 2013	K%	1910

Note: I. $K = N - M$

II. $N + K = 95$

III. $N + M = 115$

What is the total number of poems and stories published in year 2011, 2012, and 2013 together?

- a. 3980
- b. 3960
- c. 3950
- d. 3970
- e. None of these

153. **Directions:** Answer the question based on the information given below: (+1, -0.25)

The table below shows the percentage of poems published out of the total poems and stories published from 2011 till 2013 and the number of poems published starting from 2011 till 2013.

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published
2011	M%	702
Till 2012	N%	1640
Till 2013	K%	1910

Note: I. $K = N - M$

II. $N + K = 95$

III. $N + M = 115$

What is the difference between the number of stories published in 2011 and 2013?

- a. $N/2 + 13$

- b. $M + 3$
- c. $K \times 2 - 2$
- d. $(N - M) + 23$
- e. All of the above

154. **Directions:** Answer the question based on the information given below: (+1, -0.25)

The table below shows the percentage of poems published out of the total poems and stories published from 2011 till 2013 and the number of poems published starting from 2011 till 2013.

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published
2011	M%	702
Till 2012	N%	1640
Till 2013	K%	1910

Note: I. $K = N - M$

II. $N + K = 95$

III. $N + M = 115$

Number of poems published in 2014 was $(7M + 9)$, Number of poems published in year 2014 is how much more less than the number of poems published in year 2013?

- a. $K + 24$

- b. $N - 4^2$
- c. $M + 9$
- d. Both 1 and 3
- e. Both 2 and 3

155. **Directions:** Answer the question based on the information given below: (+1, -0.25)

The table below shows the percentage of poems published out of the total poems and stories published from 2011 till 2013 and the number of poems published starting from 2011 till 2013.

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published
2011	M%	702
Till 2012	N%	1640
Till 2013	K%	1910

Note: I. $K = N - M$

II. $N + K = 95$

III. $N + M = 115$

The respective ratio between the number of stories published in 2018 and 2012 is $3K : (N - 3)$. If the total number of stories published in the year 2018 is 40% of the total number of poems and stories together published in the year 2018, the number of poems published in 2011 is what percent more than the number of poems published in year 2018?

- a. $K/5 - 1$
- b. $4M - 3N / 5$
- c. $0.17N - 3$
- d. Both 1 and 3
- e. None of these

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Answers

1. Answer: b

Explanation:

Persons: Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni.

Fruits: Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums.

1. Anu born in one of the months, which does not have 30 days.
2. Anu was born in smallest odd numbered date. i.e., 1.
3. There are only two persons were born between Anu and the one who likes Grapes.

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		Case 1			Case 2		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits
January	Odd	01	Anu				
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						
August	Odd				01	Anu	
	Even						
December	Odd						
	Even						Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						Grapes
August	Odd	01	Anu				
	Even						
December	Odd				01	Anu	
	Even						

3. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year.

4. Fath and the one who likes Kiwi are born in the same month.

5. The one who likes Guava born in 18th of August.

		Case 1			Case 2a			Case 2b		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd					Fath				
	Even			Grapes			Kiwi			
June	Odd		Fath					Fath		
	Even			Kiwi						Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18		Guava	18		Guava	18		Guava
December	Odd									
	Even						Grapes			Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd					Fath	
	Even			Grapes			Kiwi
June	Odd		Fath				
	Even						Grapes
August	Odd	01	Anu				
	Even	18		Guava	18		Guava
December	Odd				01	Anu	
	Even						

6. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi.

7. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes.
8. Fath and Anu do not like Mango.
9. Four persons were born between Imu and Cathy, who was born in April.
10. Cathy was born in smallest two-digit prime number. i.e., 11. So, Case 2a and Case 4 are eliminated.

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			Case 1		Case 2b			Case 3a		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd	11	Cathy	Mango	11	Cathy	Mango	11	Cathy	Mango
	Even			Grapes						Grapes
June	Odd		Fath	Banana		Fath	Banana		Fath	Banana
	Even			Kiwi			Kiwi			Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi			Emi	
	Even						Grapes			

11. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna.

12. Hari does not like Banana and is elder than the one who likes Mango.

13. Guna does not born in the month which has 30 days.

14. Hari does not born immediately after Anu. So, Case 1 is eliminated.

		Case 2b			Case 3a		
Month	Date	Date	Person	Fruits	Date	Person	Fruits
January	Odd						
	Even		Hari			Hari	
April	Odd	11	Cathy	Mango	11	Cathy	Mango
	Even						Grapes
June	Odd		Fath	Banana		Fath	Banana
	Even		Dani	Kiwi		Dani	Kiwi
August	Odd	01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi	
	Even		Guna	Grapes		Guna	

15. The one who likes Pear does not born in odd numbered date.
16. More than three persons were born between Cathy and the one who likes Pear. So, Case 2b is eliminated.
17. The one who likes Strawberry was born before Jeni and not the eldest person.
18. The one who likes Papaya does not born in January and does not born in the same month as Guna was born.
19. The one who likes Strawberry does not born in same month as the one who likes Plums.

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		Case 3a		
Month	Date	Date	Person	Fruits
January	Odd		Banu	Apple
	Even		Hari	Strawberry
April	Odd	11	Cathy	Mango
	Even		Jeni	Grapes
June	Odd		Fath	Banana
	Even		Dani	Kiwi
August	Odd	01	Anu	Papaya
	Even	18	Imu	Guava
December	Odd		Emi	Plum
	Even		Guna	Pear

20. The one who like pear was born in largest possible even number between 16 to 30. i.e., 30

21. Guna and Hari are born in same dates.

22. Fath was born 200 days before Guna and Dani was born 3 days after Fath.

Therefore, Guna = December 30; Fath = June 13; Dani = June 16.

Month	Date	Person	Fruits
January		Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
		Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December		Emi	Plum
	30	Guna	Pear

23. Emi and Banu were born on possible two-digit odd prime number between 11 to 15. i.e., 11 and 13.

24. Jeni was born in a date which is divisible by both 7 and 4 between 15 to 30. i.e., 28.

The final arrangement is,

Month	Date	Person	Fruits
January	11/13	Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
	28	Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December	11/13	Emi	Plum
	30	Guna	Pear

If Kiwi and Plum interchange their position, then **Anu was born immediately after the one who likes Plum.**

2. Answer: b

Explanation:

Persons: Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni.

Fruits: Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums.

1. Anu born in one of the months, which does not have 30 days.

2. Anu was born in smallest odd numbered date. i.e., 1.

3. There are only two persons were born between Anu and the one who likes Grapes.

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			Case 1			Case 2	
Month	Date	Date	Persons	Fruits	Date	Person	Fruits
January	Odd	01	Anu				
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						
August	Odd				01	Anu	
	Even						
December	Odd						
	Even						Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						Grapes
August	Odd	01	Anu				
	Even						
December	Odd				01	Anu	
	Even						

3. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year.

4. Fath and the one who likes Kiwi are born in the same month.

5. The one who likes Guava born in 18th of August.

			Case 1			Case 2a		Case 2b		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd					Fath				
	Even			Grapes			Kiwi			
June	Odd		Fath					Fath		
	Even			Kiwi						Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18		Guava	18		Guava	18		Guava
December	Odd									
	Even						Grapes			Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd					Fath	
	Even			Grapes			Kiwi
June	Odd		Fath				
	Even						Grapes
August	Odd	01	Anu				
	Even	18		Guava	18		Guava
December	Odd				01	Anu	
	Even						

6. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi.

7. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes.
8. Fath and Anu do not like Mango.
9. Four persons were born between Imu and Cathy, who was born in April.
10. Cathy was born in smallest two-digit prime number. i.e., 11. So, Case 2a and Case 4 are eliminated.

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			Case 1		Case 2b			Case 3a		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd	11	Cathy	Mango	11	Cathy	Mango	11	Cathy	Mango
	Even			Grapes						Grapes
June	Odd		Fath	Banana		Fath	Banana		Fath	Banana
	Even			Kiwi			Kiwi			Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi			Emi	
	Even						Grapes			

11. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna.

12. Hari does not like Banana and is elder than the one who likes Mango.

13. Guna does not born in the month which has 30 days.

14. Hari does not born immediately after Anu. So, Case 1 is eliminated.

		Case 2b			Case 3a		
Month	Date	Date	Person	Fruits	Date	Person	Fruits
January	Odd						
	Even		Hari			Hari	
April	Odd	11	Cathy	Mango	11	Cathy	Mango
	Even						Grapes
June	Odd		Fath	Banana		Fath	Banana
	Even		Dani	Kiwi		Dani	Kiwi
August	Odd	01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi	
	Even		Guna	Grapes		Guna	

15. The one who likes Pear does not born in odd numbered date.
16. More than three persons were born between Cathy and the one who likes Pear. So, Case 2b is eliminated.
17. The one who likes Strawberry was born before Jeni and not the eldest person.
18. The one who likes Papaya does not born in January and does not born in the same month as Guna was born.
19. The one who likes Strawberry does not born in same month as the one who likes Plums.

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		Case 3a		
Month	Date	Date	Person	Fruits
January	Odd		Banu	Apple
	Even		Hari	Strawberry
April	Odd	11	Cathy	Mango
	Even		Jeni	Grapes
June	Odd		Fath	Banana
	Even		Dani	Kiwi
August	Odd	01	Anu	Papaya
	Even	18	Imu	Guava
December	Odd		Emi	Plum
	Even		Guna	Pear

20. The one who like pear was born in largest possible even number between 16 to 30. i.e., 30

21. Guna and Hari are born in same dates.

22. Fath was born 200 days before Guna and Dani was born 3 days after Fath.

Therefore, Guna = December 30; Fath = June 13; Dani = June 16.

Month	Date	Person	Fruits
January		Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
		Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December		Emi	Plum
	30	Guna	Pear

23. Emi and Banu were born on possible two-digit odd prime number between 11 to 15. i.e., 11 and 13.

24. Jeni was born in a date which is divisible by both 7 and 4 between 15 to 30. i.e., 28.

The final arrangement is,

Month	Date	Person	Fruits
January	11/13	Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
	28	Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December	11/13	Emi	Plum
	30	Guna	Pear

I. He was born in the month having odd numbered days.

II. Four people were born between Hari and Anu.

III. He likes Strawberry.

So, Only II is true.

3. Answer: d

Explanation:

Persons: Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni.

Fruits: Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums.

1. Anu born in one of the months, which does not have 30 days.

2. Anu was born in smallest odd numbered date. i.e., 1.

3. There are only two persons were born between Anu and the one who likes Grapes.

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			Case 1			Case 2	
Month	Date	Date	Persons	Fruits	Date	Person	Fruits
January	Odd	01	Anu				
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						
August	Odd				01	Anu	
	Even						
December	Odd						
	Even						Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						Grapes
August	Odd	01	Anu				
	Even						
December	Odd				01	Anu	
	Even						

3. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year.

4. Fath and the one who likes Kiwi are born in the same month.

5. The one who likes Guava born in 18th of August.

			Case 1			Case 2a		Case 2b		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd					Fath				
	Even			Grapes			Kiwi			
June	Odd		Fath					Fath		
	Even			Kiwi						Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18		Guava	18		Guava	18		Guava
December	Odd									
	Even						Grapes			Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd					Fath	
	Even			Grapes			Kiwi
June	Odd		Fath				
	Even						Grapes
August	Odd	01	Anu				
	Even	18		Guava	18		Guava
December	Odd				01	Anu	
	Even						

6. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi.

7. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes.
8. Fath and Anu do not like Mango.
9. Four persons were born between Imu and Cathy, who was born in April.
10. Cathy was born in smallest two-digit prime number. i.e., 11. So, Case 2a and Case 4 are eliminated.

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			Case 1		Case 2b			Case 3a		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd	11	Cathy	Mango	11	Cathy	Mango	11	Cathy	Mango
	Even			Grapes						Grapes
June	Odd		Fath	Banana		Fath	Banana		Fath	Banana
	Even			Kiwi			Kiwi			Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi			Emi	
	Even						Grapes			

11. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna.

12. Hari does not like Banana and is elder than the one who likes Mango.

13. Guna does not born in the month which has 30 days.

14. Hari does not born immediately after Anu. So, Case 1 is eliminated.

		Case 2b			Case 3a		
Month	Date	Date	Person	Fruits	Date	Person	Fruits
January	Odd						
	Even		Hari			Hari	
April	Odd	11	Cathy	Mango	11	Cathy	Mango
	Even						Grapes
June	Odd		Fath	Banana		Fath	Banana
	Even		Dani	Kiwi		Dani	Kiwi
August	Odd	01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi	
	Even		Guna	Grapes		Guna	

15. The one who likes Pear does not born in odd numbered date.
16. More than three persons were born between Cathy and the one who likes Pear. So, Case 2b is eliminated.
17. The one who likes Strawberry was born before Jeni and not the eldest person.
18. The one who likes Papaya does not born in January and does not born in the same month as Guna was born.
19. The one who likes Strawberry does not born in same month as the one who likes Plums.

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		Case 3a		
Month	Date	Date	Person	Fruits
January	Odd		Banu	Apple
	Even		Hari	Strawberry
April	Odd	11	Cathy	Mango
	Even		Jeni	Grapes
June	Odd		Fath	Banana
	Even		Dani	Kiwi
August	Odd	01	Anu	Papaya
	Even	18	Imu	Guava
December	Odd		Emi	Plum
	Even		Guna	Pear

20. The one who like pear was born in largest possible even number between 16 to 30. i.e., 30

21. Guna and Hari are born in same dates.

22. Fath was born 200 days before Guna and Dani was born 3 days after Fath.

Therefore, Guna = December 30; Fath = June 13; Dani = June 16.

Month	Date	Person	Fruits
January		Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
		Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December		Emi	Plum
	30	Guna	Pear

23. Emi and Banu were born on possible two-digit odd prime number between 11 to 15. i.e., 11 and 13.

24. Jeni was born in a date which is divisible by both 7 and 4 between 15 to 30. i.e., 28.

The final arrangement is,

Month	Date	Person	Fruits
January	11/13	Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
	28	Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December	11/13	Emi	Plum
	30	Guna	Pear

Jeni likes grapes who was born before Fathi and the one who born on April 28.

So, both I and III is the answer.

4. Answer: e

Explanation:

Persons: Anu, Banu, Cathy, Dani, Emi, Fath, Guna, Hari, Imu and Jeni.

Fruits: Papaya, Apple, Kiwi, Mango, Strawberry, Grapes, Banana, Guava, Pear and Plums.

1. Anu born in one of the months, which does not have 30 days.
2. Anu was born in smallest odd numbered date. i.e., 1.
3. There are only two persons were born between Anu and the one who likes Grapes.

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			Case 1			Case 2	
Month	Date	Date	Persons	Fruits	Date	Person	Fruits
January	Odd	01	Anu				
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						
August	Odd				01	Anu	
	Even						
December	Odd						
	Even						Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd						
	Even			Grapes			
June	Odd						
	Even						Grapes
August	Odd	01	Anu				
	Even						
December	Odd				01	Anu	
	Even						

3. The one who likes Kiwi born immediately after Fath, who does not born in first or last months of the year.

4. Fath and the one who likes Kiwi are born in the same month.

5. The one who likes Guava born in 18th of August.

			Case 1			Case 2a		Case 2b		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd					Fath				
	Even			Grapes			Kiwi			
June	Odd		Fath						Fath	
	Even			Kiwi						Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18		Guava	18		Guava	18		Guava
December	Odd									
	Even						Grapes			Grapes

		Case 3			Case 4		
Month		Date	Persons	Fruits	Date	Persons	Fruits
January	Odd						
	Even						
April	Odd					Fath	
	Even			Grapes			Kiwi
June	Odd		Fath				
	Even						Grapes
August	Odd	01	Anu				
	Even	18		Guava	18		Guava
December	Odd				01	Anu	
	Even						

6. There are three persons were born between Emi and the one who likes Banana, who is elder than Emi.

7. As many persons born before the one who likes Mango is one more than the number of persons born after Emi, who does not like grapes.
8. Fath and Anu do not like Mango.
9. Four persons were born between Imu and Cathy, who was born in April.
10. Cathy was born in smallest two-digit prime number. i.e., 11. So, Case 2a and Case 4 are eliminated.

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			Case 1		Case 2b			Case 3a		
Month	Date	Date	Persons	Fruits	Date	Person	Fruits	Date	Person	Fruits
January	Odd	01	Anu							
	Even									
April	Odd	11	Cathy	Mango	11	Cathy	Mango	11	Cathy	Mango
	Even			Grapes						Grapes
June	Odd		Fath	Banana		Fath	Banana		Fath	Banana
	Even			Kiwi			Kiwi			Kiwi
August	Odd				01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi			Emi	
	Even						Grapes			

11. The number of persons born between Hari and Dani is same as the number of persons born between Dani and Guna.

12. Hari does not like Banana and is elder than the one who likes Mango.

13. Guna does not born in the month which has 30 days.

14. Hari does not born immediately after Anu. So, Case 1 is eliminated.

		Case 2b			Case 3a		
Month	Date	Date	Person	Fruits	Date	Person	Fruits
January	Odd						
	Even		Hari			Hari	
April	Odd	11	Cathy	Mango	11	Cathy	Mango
	Even						Grapes
June	Odd		Fath	Banana		Fath	Banana
	Even		Dani	Kiwi		Dani	Kiwi
August	Odd	01	Anu		01	Anu	
	Even	18	Imu	Guava	18	Imu	Guava
December	Odd		Emi			Emi	
	Even		Guna	Grapes		Guna	

15. The one who likes Pear does not born in odd numbered date.
16. More than three persons were born between Cathy and the one who likes Pear. So, Case 2b is eliminated.
17. The one who likes Strawberry was born before Jeni and not the eldest person.
18. The one who likes Papaya does not born in January and does not born in the same month as Guna was born.
19. The one who likes Strawberry does not born in same month as the one who likes Plums.

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		Case 3a		
Month	Date	Date	Person	Fruits
January	Odd		Banu	Apple
	Even		Hari	Strawberry
April	Odd	11	Cathy	Mango
	Even		Jeni	Grapes
June	Odd		Fath	Banana
	Even		Dani	Kiwi
August	Odd	01	Anu	Papaya
	Even	18	Imu	Guava
December	Odd		Emi	Plum
	Even		Guna	Pear

20. The one who like pear was born in largest possible even number between 16 to 30. i.e., 30

21. Guna and Hari are born in same dates.

22. Fath was born 200 days before Guna and Dani was born 3 days after Fath.

Therefore, Guna = December 30; Fath = June 13; Dani = June 16.

Month	Date	Person	Fruits
January		Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
		Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December		Emi	Plum
	30	Guna	Pear

23. Emi and Banu were born on possible two-digit odd prime number between 11 to 15. i.e., 11 and 13.

24. Jeni was born in a date which is divisible by both 7 and 4 between 15 to 30. i.e., 28.

The final arrangement is,

Month	Date	Person	Fruits
January	11/13	Banu	Apple
	30	Hari	Strawberry
April	11	Cathy	Mango
	28	Jeni	Grapes
June	13	Fath	Banana
	16	Dani	Kiwi
August	01	Anu	Papaya
	18	Imu	Guava
December	11/13	Emi	Plum
	30	Guna	Pear

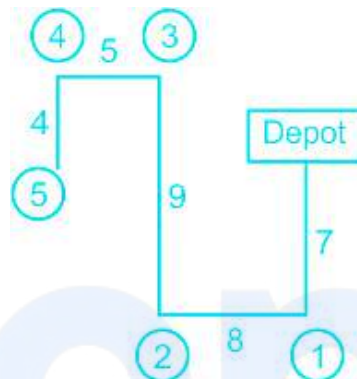
The one who likes plum was born on December 11 or 13.

So, cannot be determined.

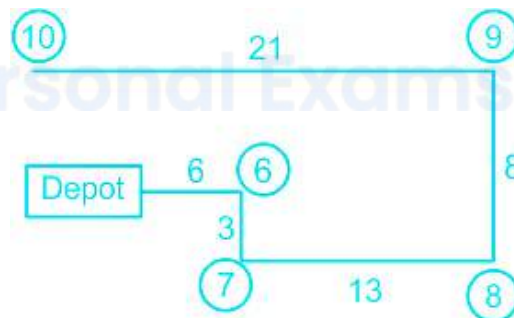
5. Answer: b

Explanation:

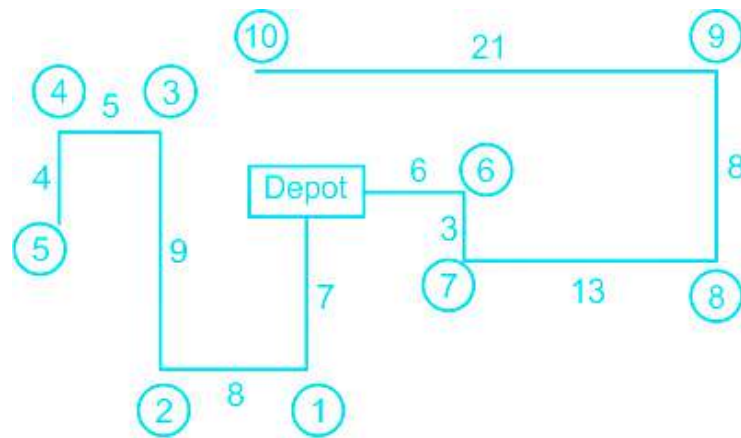
Bus P moved 7 km towards south and reached stoppage 1. Then turned right and moved 8 km and reached stoppage 2. From there Bus P turned right and covered 9 km to reach stoppage 3. Then it turned to its left and covered 5 km to reach stoppage 4 and finally, it took a left turn and went 4 km to reach stoppage 5.



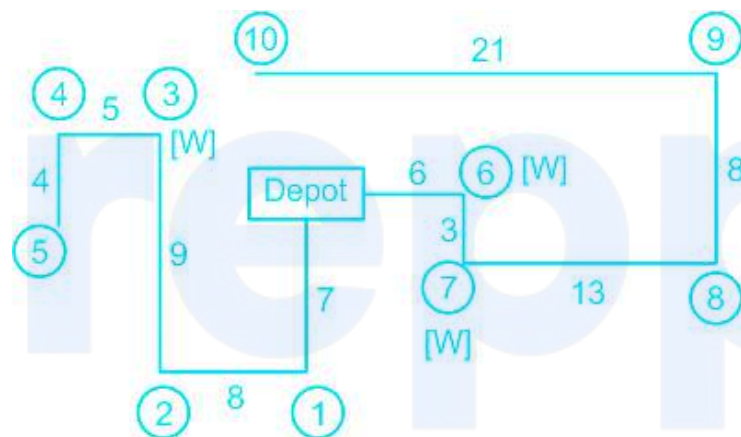
Bus Q went 6 km to east and reached stoppage 6. Then it turned to its right and moved 3 km to reach stoppage 7. It travelled 13 km towards left and went to stoppage 8. From there bus Q turned left and covered 8 km to reach stoppage 9. Finally, it moves towards its left and went 21 km to reach stoppage 10.



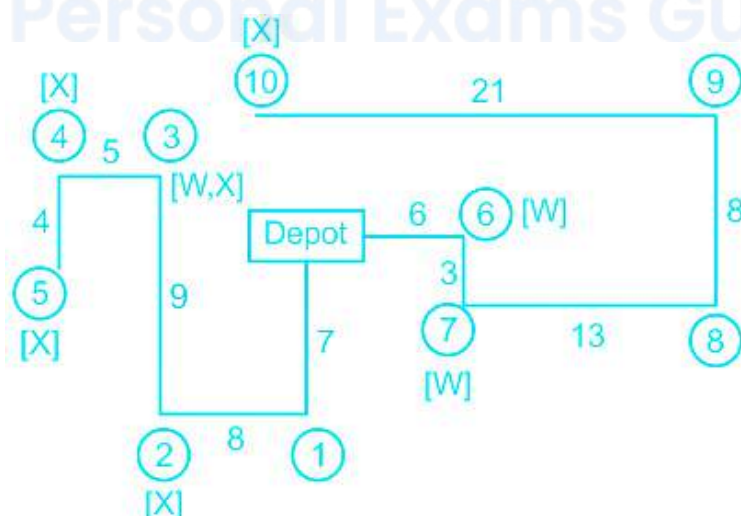
Now combining the two images we get,



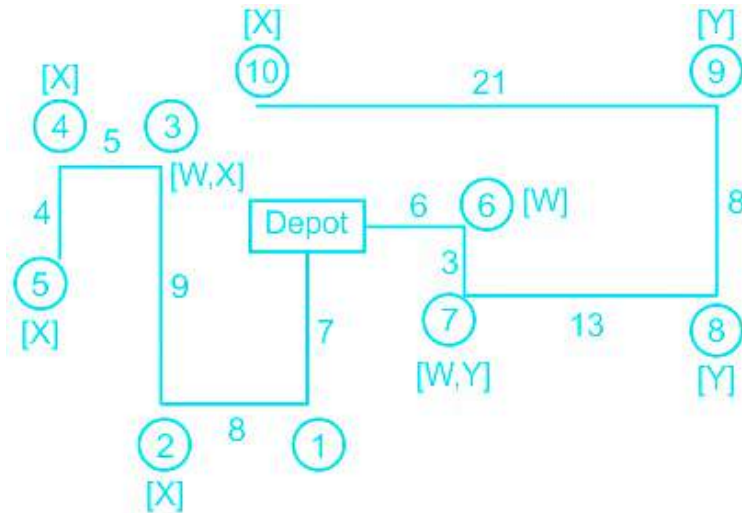
1) 'W' is assigned to the first stoppage if distance between the consecutive stoppages is a prime number.



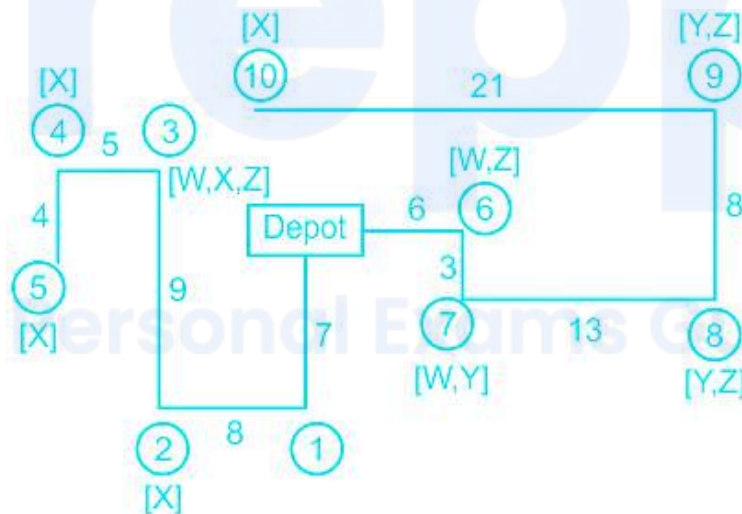
2) 'X' is assigned to the stoppage which is in north west or south west direction of the depot.



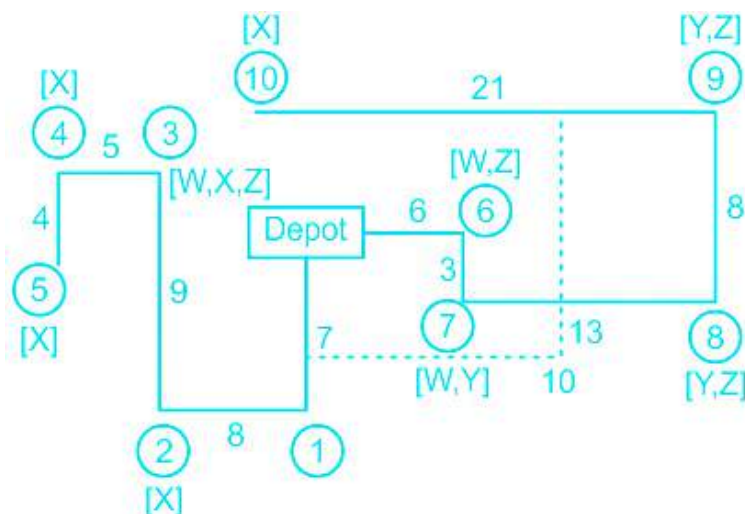
3) 'Y' is assigned to the stoppage which is in north east or south east direction of the depot.



4) 'Z' is assigned to the stoppage if distance between the stoppage and depot is even number which means if we want to calculate the distance between depot and stoppage 2, we would get $(8 + 7) = 15$ m which is not even number. Again, the distance between depot and stoppage 3 is $(8 + 7 + 9) = 24$ m which is even number. Therefore, stoppage 3 would be named as Z.



Now,

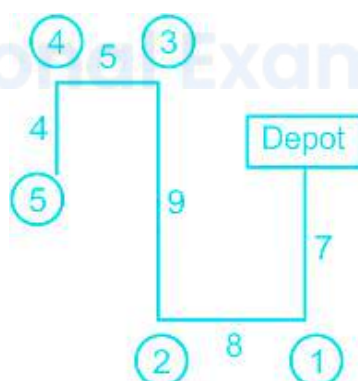


Hence the distance is = $(6 + 13 - 10) = 9$ meters.

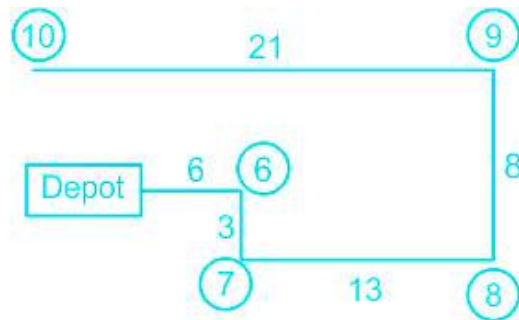
6. Answer: d

Explanation:

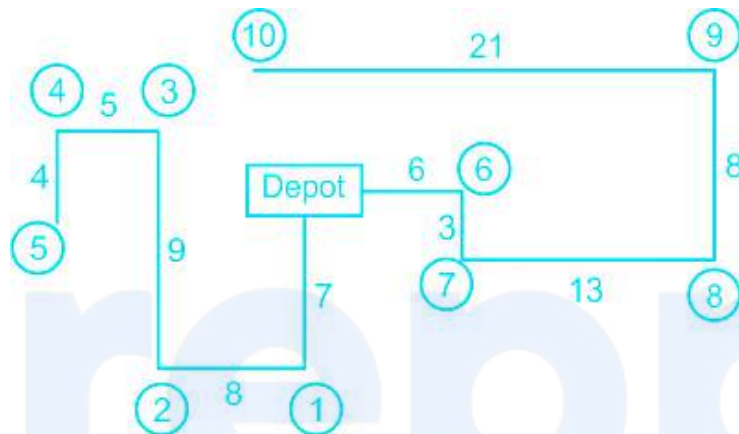
Bus P moved 7 km towards south and reached stoppage 1. Then turned right and moved 8 km and reached stoppage 2. From there Bus P turned right and covered 9 km to reach stoppage 3. Then it turned to its left and covered 5 km to reach stoppage 4 and finally, it took a left turn and went 4 km to reach stoppage 5.



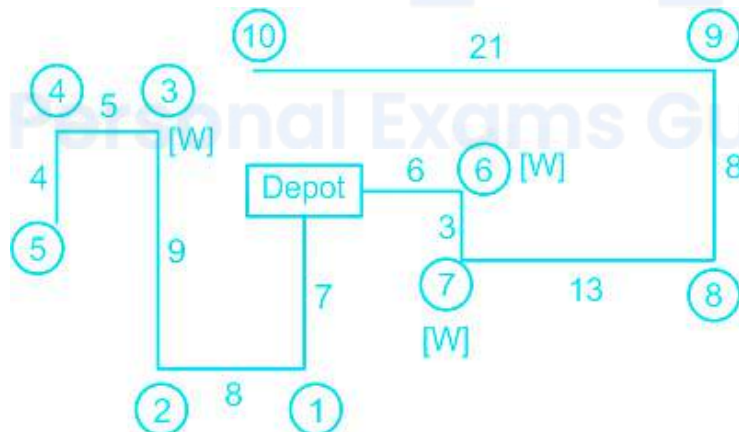
Bus Q went 6 km to east and reached stoppage 6. Then it turned to its right and moved 3 km to reach stoppage 7. It travelled 13 km towards left and went to stoppage 8. From there bus Q turned left and covered 8 km to reach stoppage 9. Finally, it moves towards its left and went 21 km to reach stoppage 10.



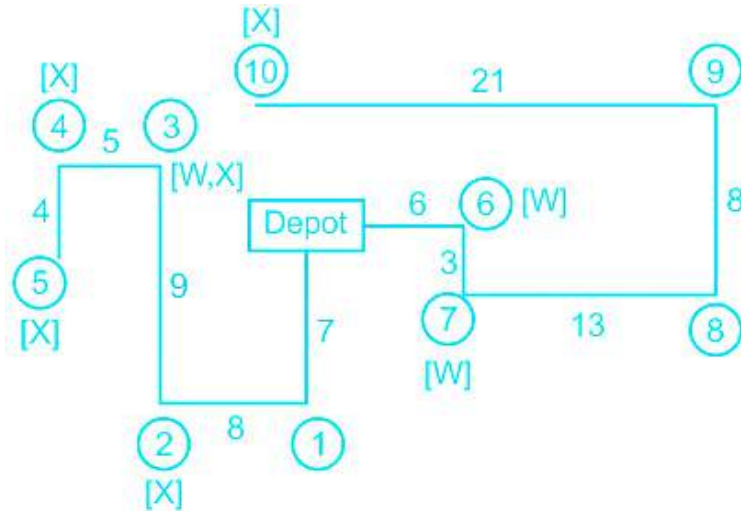
Now combining the two images we get,



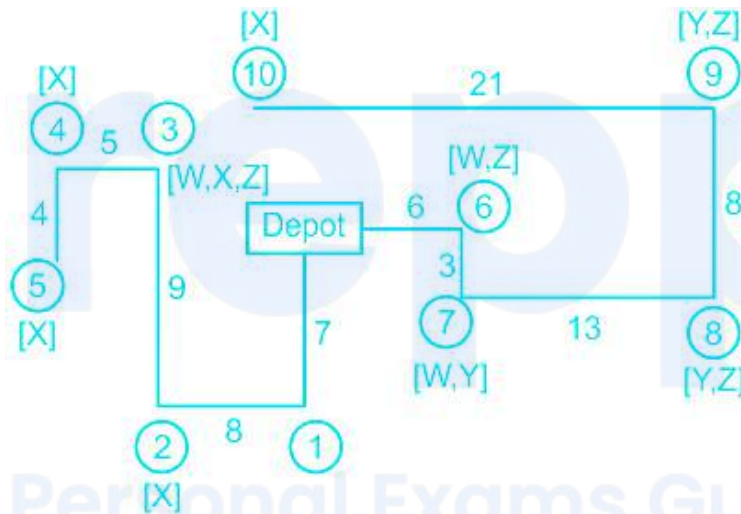
1) 'W' is assigned to the first stoppage if distance between the consecutive stoppages is a prime number.



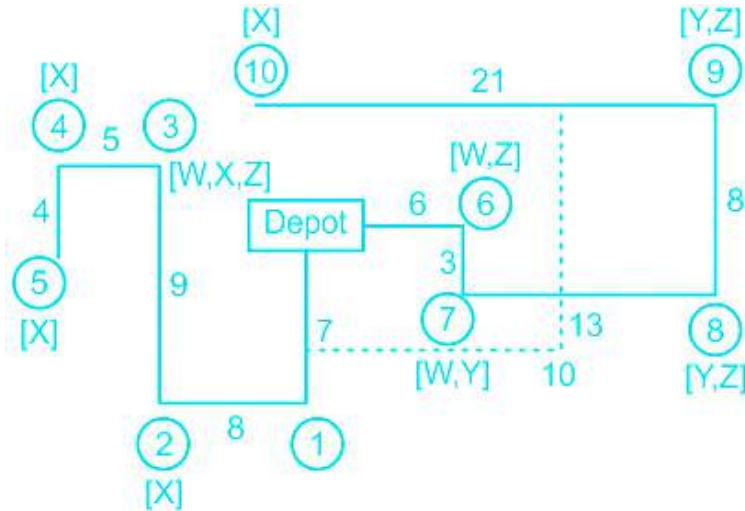
2) 'X' is assigned to the stoppage which is in north west or south west direction of the depot.



3) 'Y' is assigned to the stoppage which is in north east or south east direction of the depot.



4) 'Z' is assigned to the stoppage if distance between the stoppage and depot is even number which means if we want to calculate the distance between depot and stoppage 2, we would get $(8 + 7) = 15$ m which is not even number. Again, the distance between depot and stoppage 3 is $(8 + 7 + 9) = 24$ m which is even number. Therefore, stoppage 3 would be named as Z.

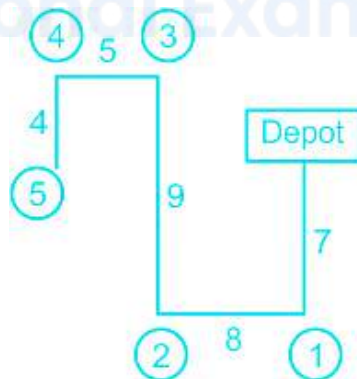


Hence, the correct answer is Stoppage 1 – Stoppage 10 as except this every pair shows inclination from south to east.

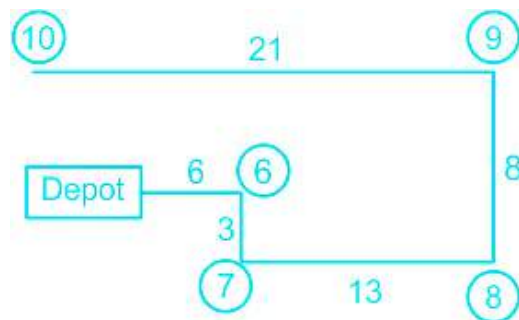
7. Answer: a

Explanation:

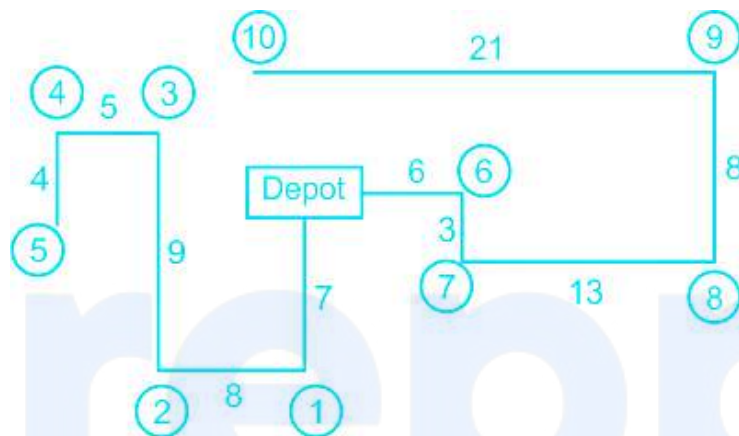
Bus P moved 7 km towards south and reached stoppage 1. Then turned right and moved 8 km and reached stoppage 2. From there Bus P turned right and covered 9 km to reach stoppage 3. Then it turned to its left and covered 5 km to reach stoppage 4 and finally, it took a left turn and went 4 km to reach stoppage 5.



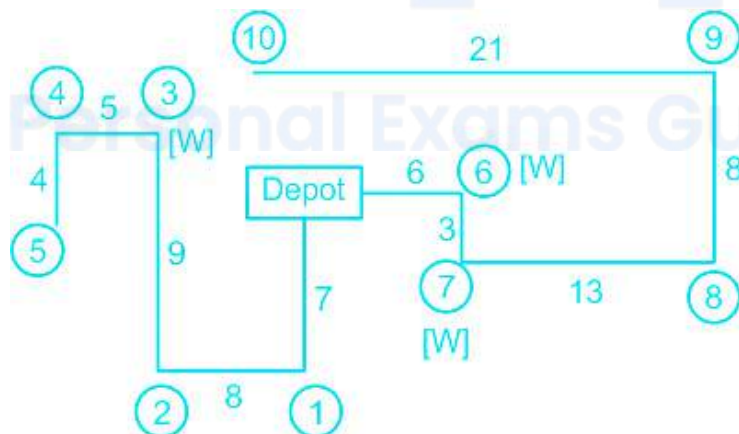
Bus Q went 6 km to east and reached stoppage 6. Then it turned to its right and moved 3 km to reach stoppage 7. It travelled 13 km towards left and went to stoppage 8. From there bus Q turned left and covered 8 km to reach stoppage 9. Finally, it moves towards its left and went 21 km to reach stoppage 10.



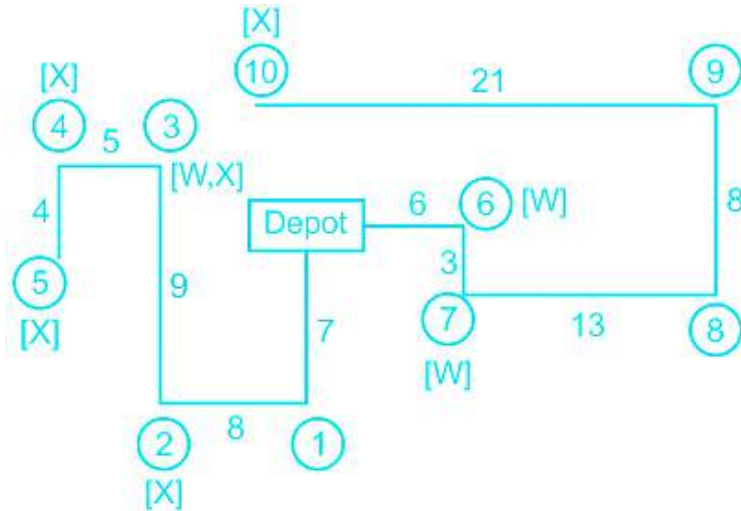
Now combining the two images we get,



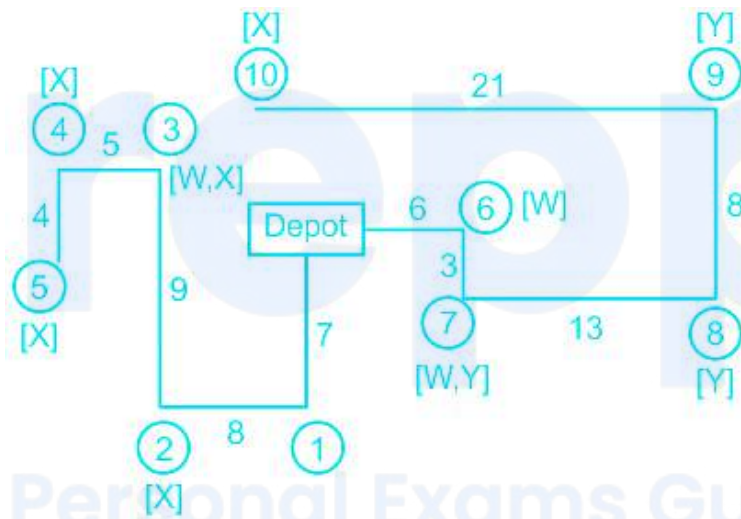
1) 'W' is assigned to the first stoppage if distance between the consecutive stoppages is a prime number.



2) 'X' is assigned to the stoppage which is in north west or south west direction of the depot.



3) 'Y' is assigned to the stoppage which is in north east or south east direction of the depot.



4) 'Z' is assigned to the stoppage if distance between the stoppage and depot is even number which means if we want to calculate the distance between depot and stoppage 2, we would get $(8 + 7) = 15$ m which is not even number. Again, the distance between depot and stoppage 3 is $(8 + 7 + 9) = 24$ m which is even number. Therefore, stoppage 3 would be named as Z.



Explanation:

Given:

Persons = 21

6 posts in decreasing order - ED, DGM, AGM, Manager, AM and Clerk.

On any post, the number of person posted is one more than the number of person posted in the immediate senior post. It means there are 6 Clerks, 5 AMs, 4 Managers, 3 AGMs, 2 DGMS and 1 ED. $6+5+4+3+2+1 = 21$.

Now,

- 1) P, L, M and W work at the same post. They can be Managers, AMs or Clerks.
- 2) P does not work as AM. So, only two possibilities left.

Case 1 -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

3) Q is senior to W. Q can be ED, DGM, AGM in both cases and Manager, AM in Case I.

4) Neither X nor Q is a manager. So, one possibility within case I gets eliminated.

5) C and Q works at the same post.

6) S is senior to V and C. It means C and Q are not at EDs.

7) S is senior to R but junior to G. It means C and Q are not DGMs.

The possibilities are -

Case I (a) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	C, Q
Clerk (6)	P, L, M, W

Case I (b) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

8) U and T are senior to L.

9) T does not work as AGM.

10) R is senior to T but junior to F and G. Combining 7) and 10) we get, $G > S > R > T > L$. This is not possible in Case II so it gets eliminated.

Case I (a) -

Posts	Case i	Case ii	Case iii	Case iv	Case v
ED (1)	G	G	G	G	
DGM (2)	S	S		S	G
AGM (3)	R	R	S		S
Manager (4)	T		R	R	R
AM (5)	C, Q	C, Q, T	C, Q, T	C, Q, T	C, Q, T
Clerk (6)	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W

Case I (b) -

Posts	Case i	Case v
ED (1)	G	G
DGM (2)	S	S
AGM (3)	C, Q, R	C, Q
Manager (4)	T	R
AM (5)		T
Clerk (6)	P, L, M, W	P, L, M, W

11) C is senior to A.

12) A does not work as clerk. Case I (a) gets completely eliminated. In case I (b), A can be Manager or AM. We will place it later.

13) V is just senior to X. Combining this condition with 4) and 6) we get, V can be AGM, Manager and AM. X can be AM or clerk.

14) V is just junior to N. So, N can be DGM or AGM.

13) R and N do not work at the same post. According to condition 10), F is senior to R.

14) E, H and D work at the same post. They can be AM. They cannot be managers as then we will not be able to place N, V and X consecutive-wise.

15) B is senior to O. Also, from condition 8), U is senior to L.

Combining all the above conditions, case v gets eliminated as if N is placed with S, then F will not get placed and if N is placed with C and Q then either B or U couldn't be placed.

So, the final arrangement is -

Case I (b) -

Posts	Case i
ED (1)	G
DGM (2)	S, F
AGM (3)	C, Q, R
Manager (4)	T, N, B, U
AM (5)	A, E, H, D, V
Clerk (6)	P, L, M, W, X, O

Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order. → The two highest positions are ED and DGM. The persons on these posts in alphabetical order are F, G and S. So the leader of the legal department is F, Marketing is G and HR is S.

2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels). → Such persons are L (with O), H, D with (with A and E), B (with U).

3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing. → Posts having even number of persons are Manager and Clerk. Among them, T, N, U, P, W, X, O went to Marketing.

4. Rest will go to the Legal department. → They are C, Q, R, A, E, V and M.

Among the given options, all except F are AMs.

Hence, the correct answer is F.

9. Answer: e

Explanation:

Given:

Persons = 21

6 posts in decreasing order – ED, DGM, AGM, Manager, AM and Clerk.

On any post, the number of person posted is one more than the number of person posted in the immediate senior post. It means there are 6 Clerks, 5 AMs, 4 Managers, 3 AGMs, 2 DGMs and 1 ED. $6+5+4+3+2+1 = 21$.

Now,

1) P, L, M and W work at the same post. They can be Managers, AMs or Clerks.

2) P does not work as AM. So, only two possibilities left.

Case I –

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

3) Q is senior to W. Q can be ED, DGM, AGM in both cases and Manager, AM in Case I.

4) Neither X nor Q is a manager. So, one possibility within case I gets eliminated.

5) C and Q works at the same post.

6) S is senior to V and C. It means C and Q are not at EDs.

7) S is senior to R but junior to G. It means C and Q are not DGMs.

The possibilities are -

Case I (a) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	C, Q
Clerk (6)	P, L, M, W

Case I (b) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

8) U and T are senior to L.

9) T does not work as AGM.

10) R is senior to T but junior to F and G. Combining 7) and 10) we get, $G > S > R > T > L$. This is not possible in Case II so it gets eliminated.

Case I (a) -

Posts	Case i	Case ii	Case iii	Case iv	Case v
ED (1)	G	G	G	G	
DGM (2)	S	S		S	G
AGM (3)	R	R	S		S
Manager (4)	T		R	R	R
AM (5)	C, Q	C, Q, T	C, Q, T	C, Q, T	C, Q, T
Clerk (6)	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W

Case I (b) -

Posts	Case i	Case v
ED (1)	G	G
DGM (2)	S	S
AGM (3)	C, Q, R	C, Q
Manager (4)	T	R
AM (5)		T
Clerk (6)	P, L, M, W	P, L, M, W

11) C is senior to A.

12) A does not work as clerk. Case I (a) gets completely eliminated. In case I (b), A can be Manager or AM. We will place it later.

13) V is just senior to X. Combining this condition with 4) and 6) we get, V can be AGM, Manager and AM. X can be AM or clerk.

14) V is just junior to N. So, N can be DGM or AGM.

13) R and N do not work at the same post. According to condition 10), F is senior to R.

14) E, H and D work at the same post. They can be AM. They cannot be managers as then we will not be able to place N, V and X consecutive-wise.

15) B is senior to O. Also, from condition 8), U is senior to L.

Combining all the above conditions, case v gets eliminated as if N is placed with S, then F will not get placed and if N is placed with C and Q then either B or U couldn't be placed.

So, the final arrangement is -

Case I (b) -

Posts	Case i
ED (1)	G
DGM (2)	S, F
AGM (3)	C, Q, R
Manager (4)	T, N, B, U
AM (5)	A, E, H, D, V
Clerk (6)	P, L, M, W, X, O

Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order. → The two highest positions are ED and DGM. The persons on these posts in alphabetical order are F, G and S. So the leader of the legal department is F, Marketing is G and HR is S.

2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels). → Such persons are L (with O), H, D with (with A and E), B (with U).

3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing. → Posts having an even number of persons are Manager and Clerk. Among them, T, N, U, P, W, X, O went to Marketing.

4. Rest will go to the Legal department. → They are C, Q, R, A, E, V and M.

B who is the manager is transferred to the HR department.

Hence, the correct answer is **Atleast one of the Managers is transferred to the HR department.**

10. Answer: b

Explanation:

Given:

Persons = 21

6 posts in decreasing order – ED, DGM, AGM, Manager, AM and Clerk.

On any post, the number of person posted is one more than the number of person posted in the immediate senior post. It means there are 6 Clerks, 5 AMs, 4 Managers, 3 AGMs, 2 DGMs and 1 ED. $6+5+4+3+2+1 = 21$.

Now,

1) P, L, M and W work at the same post. They can be Managers, AMs or Clerks.

2) P does not work as AM. So, only two possibilities left.

Case I –

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

3) Q is senior to W. Q can be ED, DGM, AGM in both cases and Manager, AM in Case I.

4) Neither X nor Q is a manager. So, one possibility within case I gets eliminated.

5) C and Q works at the same post.

6) S is senior to V and C. It means C and Q are not at EDs.

7) S is senior to R but junior to G. It means C and Q are not DGMs.

The possibilities are -

Case I (a) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	C, Q
Clerk (6)	P, L, M, W

Case I (b) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

8) U and T are senior to L.

9) T does not work as AGM.

10) R is senior to T but junior to F and G. Combining 7) and 10) we get, $G > S > R > T > L$. This is not possible in Case II so it gets eliminated.

Case I (a) -

Posts	Case i	Case ii	Case iii	Case iv	Case v
ED (1)	G	G	G	G	
DGM (2)	S	S		S	G
AGM (3)	R	R	S		S
Manager (4)	T		R	R	R
AM (5)	C, Q	C, Q, T	C, Q, T	C, Q, T	C, Q, T
Clerk (6)	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W

Case I (b) -

Posts	Case i	Case v
ED (1)	G	G
DGM (2)	S	S
AGM (3)	C, Q, R	C, Q
Manager (4)	T	R
AM (5)		T
Clerk (6)	P, L, M, W	P, L, M, W

11) C is senior to A.

12) A does not work as clerk. Case I (a) gets completely eliminated. In case I (b), A can be Manager or AM. We will place it later.

13) V is just senior to X. Combining this condition with 4) and 6) we get, V can be AGM, Manager and AM. X can be AM or clerk.

14) V is just junior to N. So, N can be DGM or AGM.

13) R and N do not work at the same post. According to condition 10), F is senior to R.

14) E, H and D work at the same post. They can be AM. They cannot be managers as then we will not be able to place N, V and X consecutive-wise.

15) B is senior to O. Also, from condition 8), U is senior to L.

Combining all the above conditions, case v gets eliminated as if N is placed with S, then F will not get placed and if N is placed with C and Q then either B or U couldn't be placed.

So, the final arrangement is -

Case I (b) -

Posts	Case i
ED (1)	G
DGM (2)	S, F
AGM (3)	C, Q, R
Manager (4)	T, N, B, U
AM (5)	A, E, H, D, V
Clerk (6)	P, L, M, W, X, O

Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order. → The two highest positions are ED and DGM. The persons on these posts in alphabetical order are F, G and S. So the leader of the legal department is F, Marketing is G and HR is S.

2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels). → Such persons are L (with O), H, D with (with A and E), B (with U).

3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing. → Posts having even number of persons are Manager and Clerk. Among them, T, N, U, P, W, X, O went to Marketing.

4. Rest will go to the Legal department. → They are C, Q, R, A, E, V and M.

Among the given options, C is not the manager.

Hence, the correct answer is C.

11. Answer: b

Explanation:

Given:

Persons = 21

6 posts in decreasing order – ED, DGM, AGM, Manager, AM and Clerk.

On any post, the number of person posted is one more than the number of person posted in the immediate senior post. It means there are 6 Clerks, 5 AMs, 4 Managers, 3 AGMs, 2 DGMs and 1 ED. $6+5+4+3+2+1 = 21$.

Now,

1) P, L, M and W work at the same post. They can be Managers, AMs or Clerks.

2) P does not work as AM. So, only two possibilities left.

Case I–

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

- 3) Q is senior to W. Q can be ED, DGM, AGM in both cases and Manager, AM in Case I.
- 4) Neither X nor Q is a manager. So, one possibility within case I gets eliminated.
- 5) C and Q works at the same post.
- 6) S is senior to V and C. It means C and Q are not at EDs.
- 7) S is senior to R but junior to G. It means C and Q are not DGMs.

The possibilities are -

Case I (a) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	
Manager (4)	
AM (5)	C, Q
Clerk (6)	P, L, M, W

Case I (b) -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	
AM (5)	
Clerk (6)	P, L, M, W

Case II -

Posts	Persons
ED (1)	
DGM (2)	
AGM (3)	C, Q
Manager (4)	P, L, M, W
AM (5)	
Clerk (6)	

8) U and T are senior to L.

9) T does not work as AGM.

10) R is senior to T but junior to F and G. Combining 7) and 10) we get, $G > S > R > T > L$. This is not possible in Case II so it gets eliminated.

Case I (a) -

Posts	Case i	Case ii	Case iii	Case iv	Case v
ED (1)	G	G	G	G	
DGM (2)	S	S		S	G
AGM (3)	R	R	S		S
Manager (4)	T		R	R	R
AM (5)	C, Q	C, Q, T	C, Q, T	C, Q, T	C, Q, T
Clerk (6)	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W	P, L, M, W

Case I (b) -

Posts	Case i	Case v
ED (1)	G	G
DGM (2)	S	S
AGM (3)	C, Q, R	C, Q
Manager (4)	T	R
AM (5)		T
Clerk (6)	P, L, M, W	P, L, M, W

11) C is senior to A.

12) A does not work as clerk. Case I (a) gets completely eliminated. In case I (b), A can be Manager or AM. We will place it later.

13) V is just senior to X. Combining this condition with 4) and 6) we get, V can be AGM, Manager and AM. X can be AM or clerk.

14) V is just junior to N. So, N can be DGM or AGM.

13) R and N do not work at the same post. According to condition 10), F is senior to R.

14) E, H and D work at the same post. They can be AM. They cannot be managers as then we will not be able to place N, V and X consecutive-wise.

15) B is senior to O. Also, from condition 8), U is senior to L.

Combining all the above conditions, case v gets eliminated as if N is placed with S, then F will not get placed and if N is placed with C and Q then either B or U couldn't be placed.

So, the **final arrangement** is -

Case I (b) -

Posts	Case i
ED (1)	G
DGM (2)	S, F
AGM (3)	C, Q, R
Manager (4)	T, N, B, U
AM (5)	A, E, H, D, V
Clerk (6)	P, L, M, W, X, O

Now these persons are transferred to three departments i.e. HR, Marketing and Legal using the below-given conditions of

1. No transfer happens for the person who belongs to the two highest positions and they become leaders in legal, Marketing and HR respectively according to the alphabetical order. → The two highest positions are ED and DGM. The persons on these posts in alphabetical order are F, G and S. So the leader of the legal department is F, Marketing is G and HR is S.

2. Persons whose name starts with a letter that comes before M in alphabetical order and he/she works with a person whose name starts with a vowel went to HR (excluding the vowels) . → Such persons are L (with O), H, D with (with A and E), B (with U).

3. Persons whose name starts with a letter which comes after M in alphabetical order and he/she works at a post which has even number of persons went to Marketing. → Posts having even number of persons are Manager and Clerk. Among them, T, N, U, P, W, X, O went to Marketing.

4. Rest will go to the Legal department. → They are C, Q, R, A, E, V and M.

U is transferred to the marketing department.

Hence, the correct answer is **Marketing**.

12. Answer: d

Explanation:

In the first place there are only two symbols - # and &.

Here, in the first line two symbols are start with & and the other two start with #. If we notice the fourth line, we will see the common codes for 'all' and 'are'. Both starts with vowel and the starting symbol #. In second line all words start with consonant and symbols are start with &. Therefore, # is used when the first letter is vowel and the & is used when the first letter is consonant.

For the second place there are multiple symbol - π , ∞ , θ , Ψ , $\odot$

This symbol represents the number of letters in each word-

No. of letter	Code
2	$\odot$
3	Ψ
4	π
5	∞
6	θ

For the third place the symbols are - *, ^, \$, +, !

If we look the similar code and check them with a respective letter, we find that the last symbol is used according to the last letter.

Letter	Code
L	*
E	+
D	^
S	\$
Y	!

Hence, the correct answer is 'Tale' as this word starts with consonant and consists of four letters like "Some" and both are ended with "E".

13. Answer: c

Explanation:

In the first place there are only two symbols - # and &.

Here, in the first line two symbols are start with & and the other two start with #. If we notice the fourth line, we will see the common codes for 'all' and 'are' . Both starts with vowel and the starting symbol #. In second line all words start with consonant and symbols are start with &. Therefore, # is used when the first letter is vowel and the & is used when the first letter is consonant.

For the second place there are multiple symbol - π , ∞ , θ , Ψ , $\odot$

This symbol represents the number of letters in each word-

No. of letter	Code
2	©
3	ψ
4	π
5	∞
6	θ

For the third place the symbols are - *, ^, \$, +, !

If we look the similar code and check them with a respective letter, we find that the last symbol is used according to the last letter.

Letter	Code
L	*
E	+
D	^
S	\$
Y	!

Hence, the possible code for 'we are going' is &©+ #ψ+ &∞~ .

14. Answer: a

Explanation:

In the first place there are only two symbols – # and &.

Here, in the first line two symbols are start with & and the other two start with #. If we notice the fourth line, we will see the common codes for 'all' and 'are' . Both starts with vowel and the starting symbol #. In second line all words start with consonant and symbols are start with &. Therefore, # is used when the first letter is vowel and the & is used when the first letter is consonant.

For the second place there are multiple symbol – π , ∞ , θ , Ψ , $\copyright$

This symbol represents the number of letters in each word–

No. of letter	Code
2	$\copyright$
3	Ψ
4	π
5	∞
6	θ

For the third place the symbols are – *, ^, \$, +, !

If we look the similar code and check them with a respective letter, we find that the last symbol is used according to the last letter.

Letter	Code
L	*
E	+
D	^
S	\$
Y	!

Hence, the code for 'all' is #Ψ*.

15. Answer: e

Explanation:

Country A which is the leading producer and leading exporter of cotton in the world has exported materials to company Z because of the huge number of orders from that company. The company got orders with a net value of \$45 million because of the increasing demand for cotton-based dress materials in its company.

I. Company Z has procured more profit this year therefore this is a big profit for their company. So, this does not weaken the statement.

II. As people do not like to wear cotton dresses the sale of cotton dresses may fall. So, they may face a huge loss. So, this will weaken the statement.

III. This statement states about the winter season which is not mentioned in the passage and also it mentions that people don't like the cotton materials which leads to a huge loss for the company which will make the given statement a weaker direction.

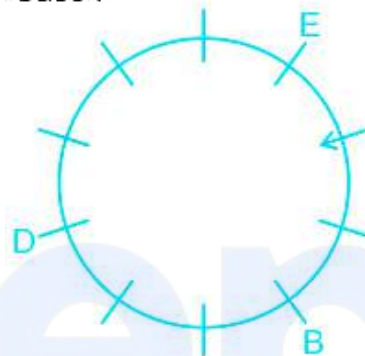
Hence, Only II will weaken the statement.

16. Answer: b

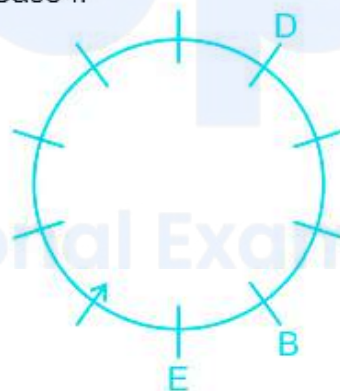
Explanation:

- 1) Two persons sit between B and D.
- 2) E sits immediate right of the one, who faces D.

Case I

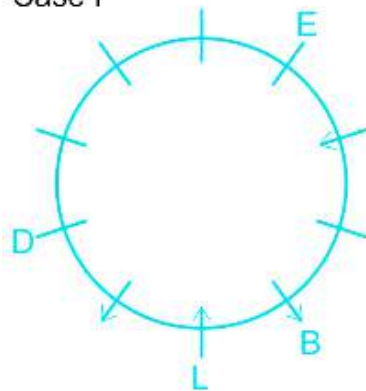


Case II

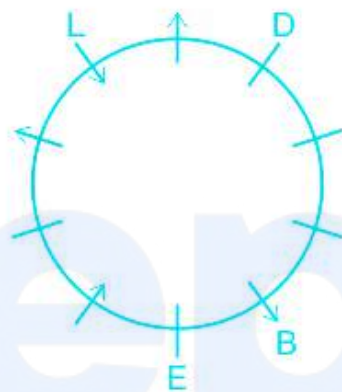


- 3) E sits fourth to the right of L.
- 4) Immediate neighbours of L are facing outside.
- 5) B does not face L. (It means two persons can sit opposite to each but not face the same direction).

Case I

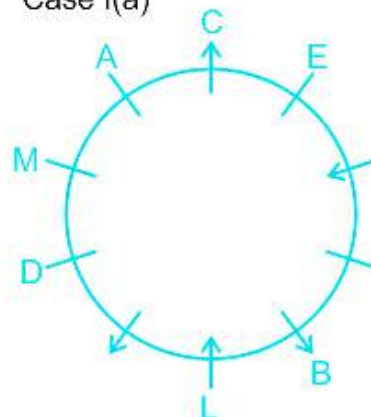


Case II

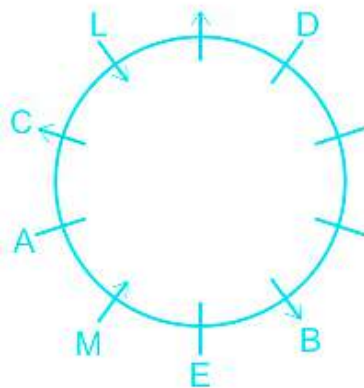


- 6) One person sits between E and A. As A is not an immediate neighbour of B.
- 7) A is an immediate neighbour of C who faces outside.
- 8) One person sits between C and M. E sits third to the left of P.

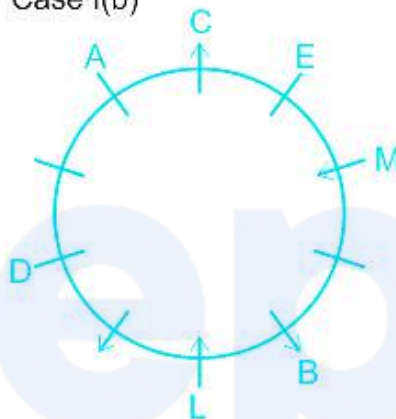
Case I(a)



Case II

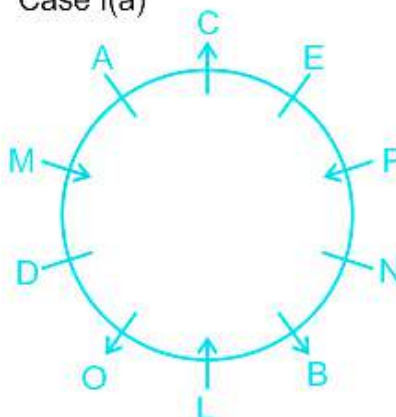


Case I(b)

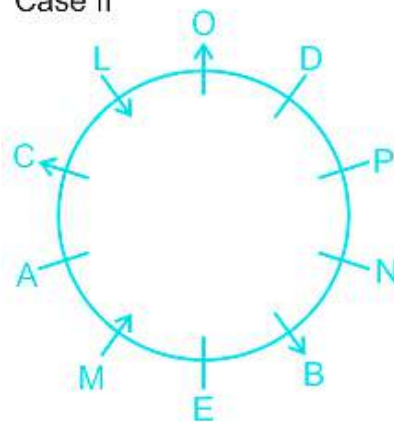


- 9) Both immediate neighbours of A face opposite directions to each other.
- 10) Neither P nor O sits adjacent to B.
- 11) O faces the same direction as B.

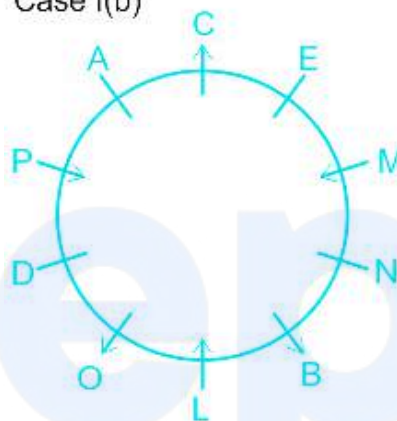
Case I(a)



Case II



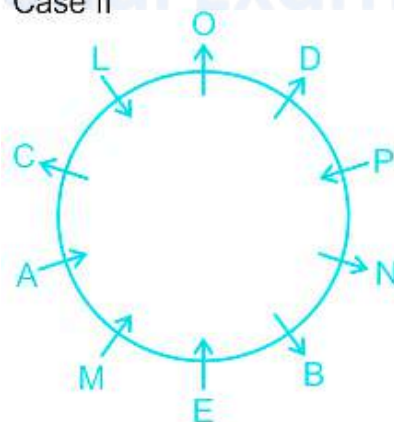
Case I(b)



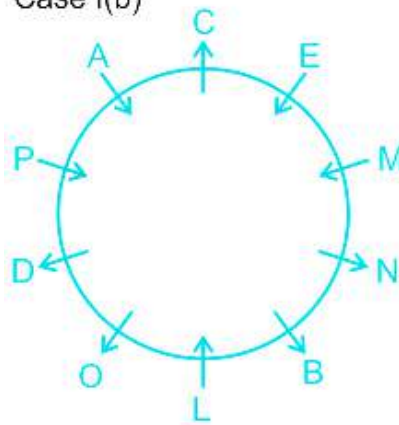
12) E sits third to the left of P. Therefore, case I (a) will be cancelled.

13) Both D and N face opposite directions as P.

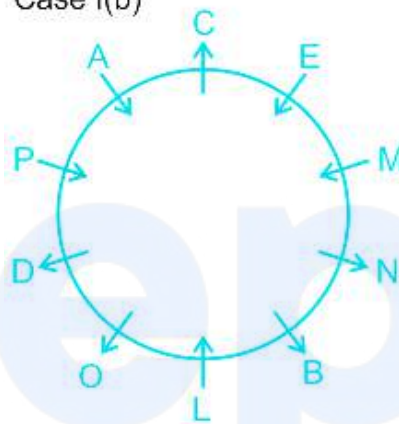
Case II



Case I(b)

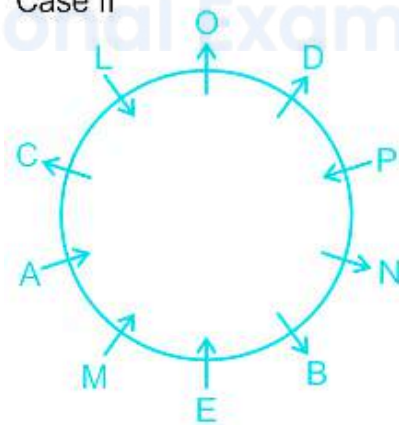


Case I(b)

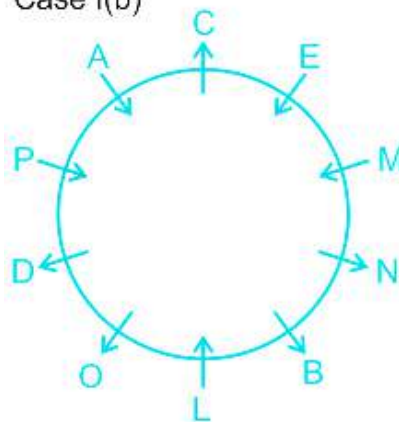


Therefore, A and E face inside as equal number of persons face inside and outside.

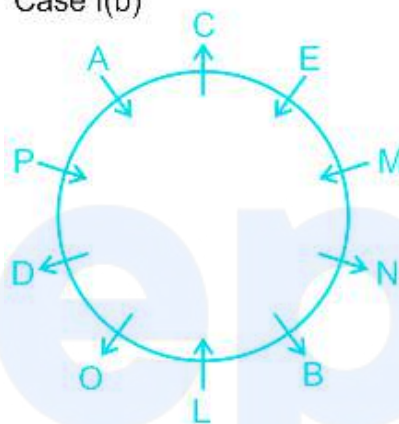
Case II



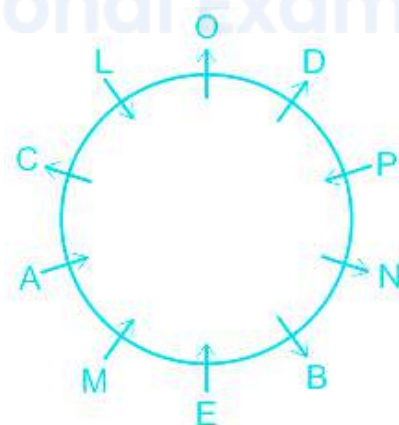
Case I(b)



Case I(b)



14) A does not sit second to the right of E. Therefore, Case I (b) will be cancelled.
The final solution is,



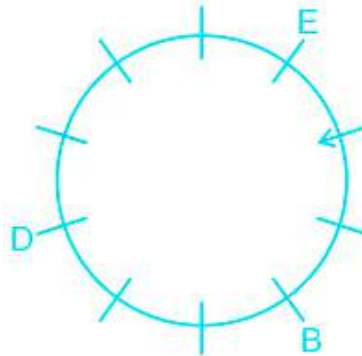
Hence, P sits fourth to the right of C.

17. Answer: b

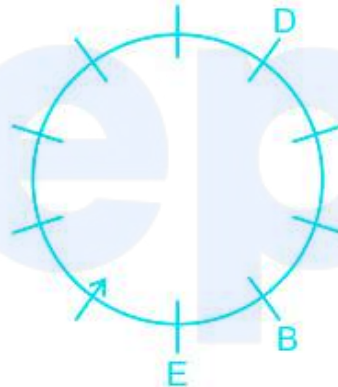
Explanation:

- 1) Two persons sit between B and D.
- 2) E sits immediate right of the one, who faces D.

Case I

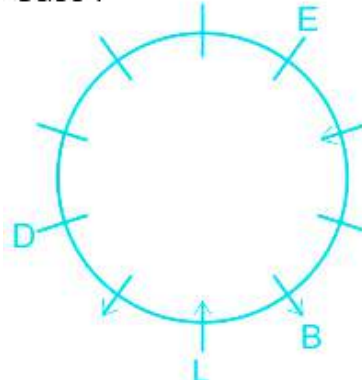


Case II

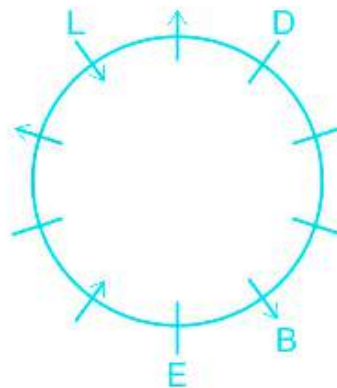


- 3) E sits fourth to the right of L.
- 4) Immediate neighbours of L are facing outside.
- 5) B does not face L. (It means two persons can sit opposite to each but not face the same direction).

Case I

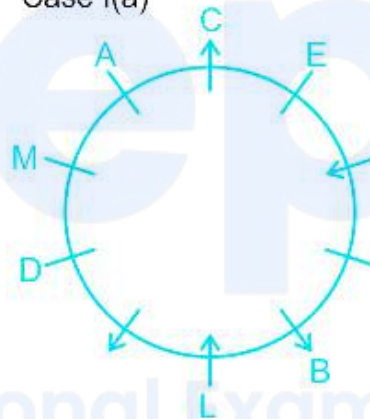


Case II

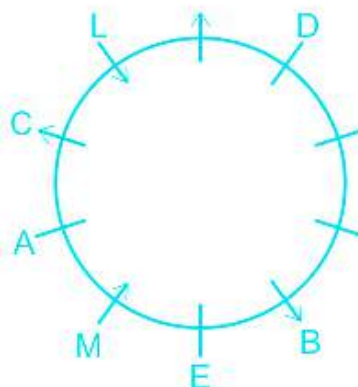


- 6) One person sits between E and A. As A is not an immediate neighbour of B.
- 7) A is an immediate neighbour of C who faces outside.
- 8) One person sits between C and M. E sits third to the left of P.

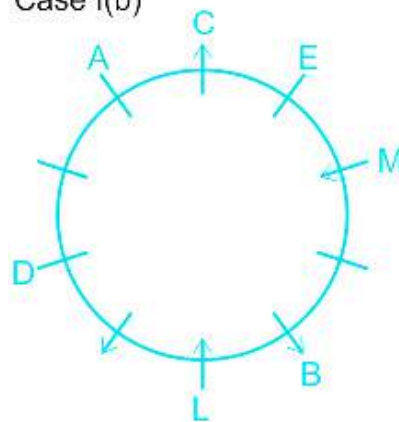
Case I(a)



Case II

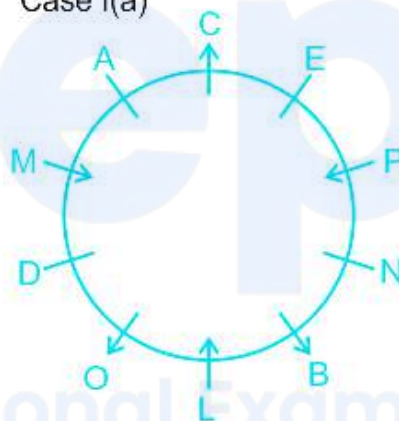


Case I(b)

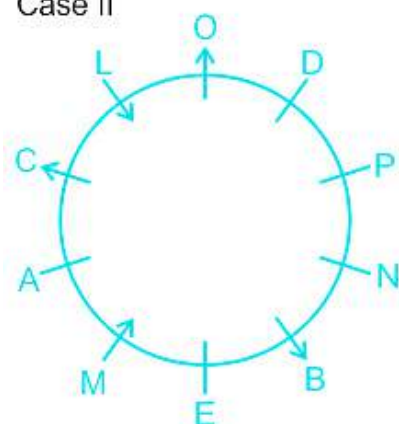


- 9) Both immediate neighbours of A face opposite directions to each other.
- 10) Neither P nor O sits adjacent to B.
- 11) O faces the same direction as B.

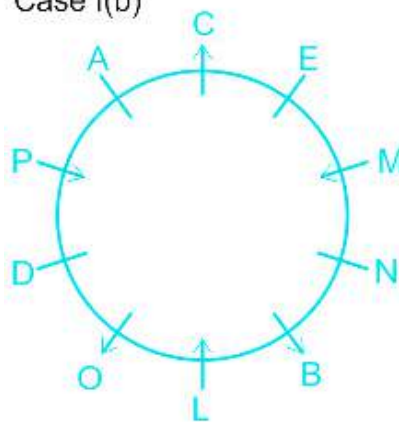
Case I(a)



Case II



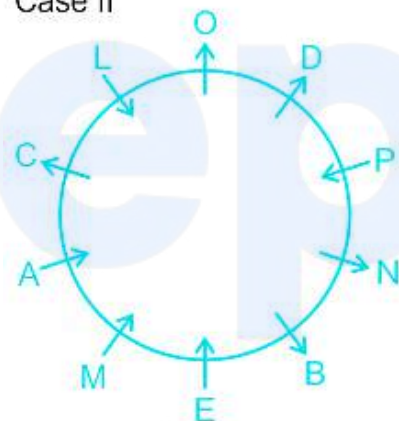
Case I(b)



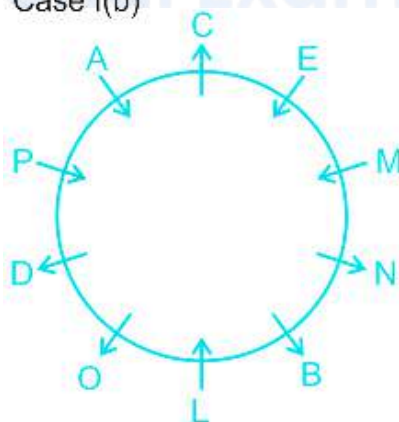
12) E sits third to the left of P. Therefore, case I (a) will be cancelled.

13) Both D and N face opposite directions as P.

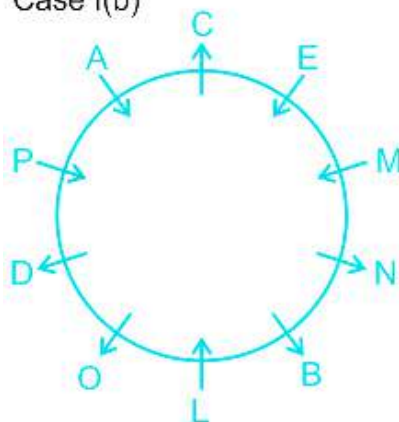
Case II



Case I(b)

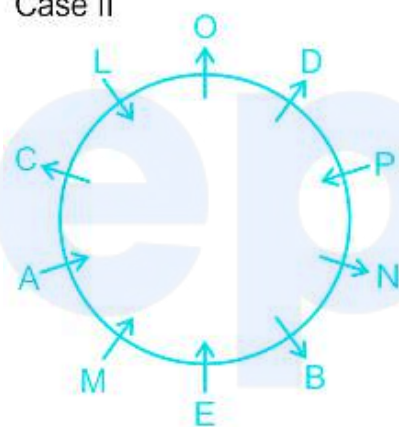


Case I(b)

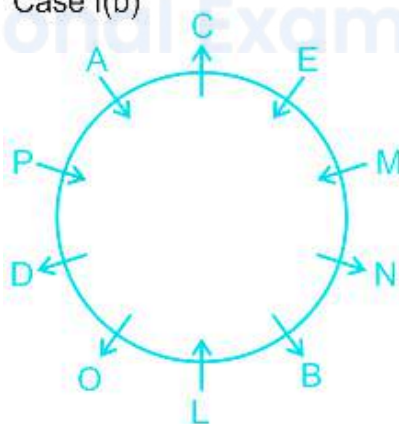


Therefore, A and E face inside as equal number of persons face inside and outside.

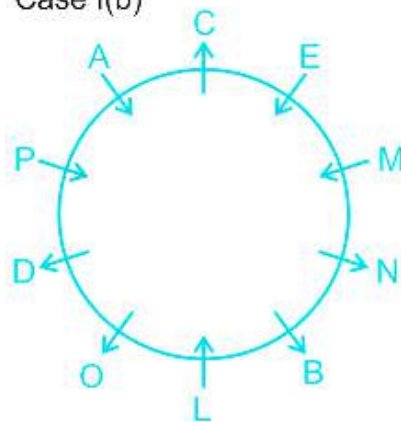
Case II



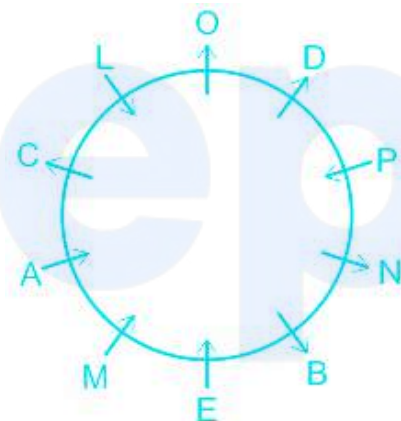
Case I(b)



Case I(b)



14) A does not sit second to the right of E. Therefore, Case I (b) will be cancelled.
The final solution is,



Hence, M sits opposite to D.

18. Answer: e

Explanation:

Nine people: A, B, C, D, E, F, G, H, and J

Nine languages: Assamese, Bengali, Gujarati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada

- 1) Two persons live below G. Therefore. G lives on floor number three.
- 2) One person lives between G and the one, who speaks Sanskrit. The person, who speaks Sanskrit is either on floor one or on floor five.

3) The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. Therefore, A lives either on 9 th floor or on 5 th floor.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7				
6				
5			A	Sanskrit
4				
3	G		G	
2				
1		Sanskrit		

4) One person lives between A and the one, who can speak Gujarati.

5) G speaks either Telegu or Hindi.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7		Gujrati		Gujrati
6				
5			A	Sanskrit
4				
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

- 6) E's floor number is half of C's floor number.
- 7) C does not live immediately above or immediately below G's floor.
- 8) One person lives between C and B, who can speak Odia.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8	C		C	
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E		E	
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

9) D lives immediately above J.

10) The one, who speaks English lives three floors above J.

11) The one, who can speak Assamese lives immediately above the one, who can speak Bengali.

12) The one, who can speak Assamese does not live on a prime numbered floor.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese		Assamese
8	C	Bengali	C	Bengali
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E	English	E	English
3	G	Telegu / Hindi	G	Telegu / Hindi
2	D		D	
1	J	Sanskrit	J	

13) F lives above H.

14) D neither speaks Telegu nor Kannada. Therefore, D speaks Hindi.

15) H cannot speak Kannada. Thus, the case I will be canceled.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese	F	Assamese
8	C	Bengali	C	Bengali
7	F	Gujrati	H	Gujrati
6	B	Odia	B	Odia
5	H		A	Sanskrit
4	E	English	E	English
3	G	Telegu	G	Telegu
2	D	Hindi	D	Hindi
1	J	Sanskrit	J	

The final solution is,

Floor	Person	Language
9	F	Assamese
8	C	Bengali
7	H	Gujrati
6	B	Odia
5	A	Sanskrit
4	E	English
3	G	Telegu
2	D	Hindi
1	J	Kannada

Hence, B lives immediately above the one, who can speak Sanskrit.

19. Answer: e

Explanation:

Nine people: A, B, C, D, E, F, G, H, and J

Nine languages: Assamese, Bengali, Gujrati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada

- 1) Two persons live below G. Therefore, G lives on floor number three.
- 2) One person lives between G and the one, who speaks Sanskrit. The person, who speaks Sanskrit is either on floor one or on floor five.
- 3) The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. Therefore, A lives either on 9 th floor or on 5 th floor.

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	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7				
6				
5			A	Sanskrit
4				
3	G		G	
2				
1		Sanskrit		

4) One person lives between A and the one, who can speak Gujarati.

5) G speaks either Telegu or Hindi.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7		Gujrati		Gujrati
6				
5			A	Sanskrit
4				
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

- 6) E's floor number is half of C's floor number.
- 7) C does not live immediately above or immediately below G's floor.
- 8) One person lives between C and B, who can speak Odia.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8	C		C	
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E		E	
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

9) D lives immediately above J.

10) The one, who speaks English lives three floors above J.

11) The one, who can speak Assamese lives immediately above the one, who can speak Bengali.

12) The one, who can speak Assamese does not live on a prime numbered floor.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese		Assamese
8	C	Bengali	C	Bengali
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E	English	E	English
3	G	Telegu / Hindi	G	Telegu / Hindi
2	D		D	
1	J	Sanskrit	J	

13) F lives above H.

14) D neither speaks Telegu nor Kannada. Therefore, D speaks Hindi.

15) H cannot speak Kannada. Thus, the case I will be canceled.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese	F	Assamese
8	C	Bengali	C	Bengali
7	F	Gujrati	H	Gujrati
6	B	Odia	B	Odia
5	H		A	Sanskrit
4	E	English	E	English
3	G	Telegu	G	Telegu
2	D	Hindi	D	Hindi
1	J	Sanskrit	J	

The final solution is,

Floor	Person	Language
9	F	Assamese
8	C	Bengali
7	H	Gujrati
6	B	Odia
5	A	Sanskrit
4	E	English
3	G	Telegu
2	D	Hindi
1	J	Kannada

Hence, 9th floor - F - Assamese is the correct combination.

20. Answer: d

Explanation:

Nine people: A, B, C, D, E, F, G, H, and J

Nine languages: Assamese, Bengali, Gujrati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada

- 1) Two persons live below G. Therefore, G lives on floor number three.
- 2) One person lives between G and the one, who speaks Sanskrit. The person, who speaks Sanskrit is either on floor one or on floor five.
- 3) The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. Therefore, A lives either on 9 th floor or on 5 th floor.



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	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7				
6				
5			A	Sanskrit
4				
3	G		G	
2				
1		Sanskrit		

4) One person lives between A and the one, who can speak Gujarati.

5) G speaks either Telegu or Hindi.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7		Gujrati		Gujrati
6				
5			A	Sanskrit
4				
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

- 6) E's floor number is half of C's floor number.
- 7) C does not live immediately above or immediately below G's floor.
- 8) One person lives between C and B, who can speak Odia.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8	C		C	
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E		E	
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

9) D lives immediately above J.

10) The one, who speaks English lives three floors above J.

11) The one, who can speak Assamese lives immediately above the one, who can speak Bengali.

12) The one, who can speak Assamese does not live on a prime numbered floor.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese		Assamese
8	C	Bengali	C	Bengali
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E	English	E	English
3	G	Telegu / Hindi	G	Telegu / Hindi
2	D		D	
1	J	Sanskrit	J	

13) F lives above H.

14) D neither speaks Telegu nor Kannada. Therefore, D speaks Hindi.

15) H cannot speak Kannada. Thus, the case I will be canceled.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese	F	Assamese
8	C	Bengali	C	Bengali
7	F	Gujrati	H	Gujrati
6	B	Odia	B	Odia
5	H		A	Sanskrit
4	E	English	E	English
3	G	Telegu	G	Telegu
2	D	Hindi	D	Hindi
1	J	Sanskrit	J	

The final solution is,

Floor	Person	Language
9	F	Assamese
8	C	Bengali
7	H	Gujrati
6	B	Odia
5	A	Sanskrit
4	E	English
3	G	Telegu
2	D	Hindi
1	J	Kannada

Hence, two persons live between A and C.

21. Answer: a

Explanation:

Nine people: A, B, C, D, E, F, G, H, and J

Nine languages: Assamese, Bengali, Gujrati, Odia, Sanskrit, English, Telegu, Hindi, and Kannada

- 1) Two persons live below G. Therefore, G lives on floor number three.
- 2) One person lives between G and the one, who speaks Sanskrit. The person, who speaks Sanskrit is either on floor one or on floor five.
- 3) The number of persons, who live above the person, who speaks Sanskrit is equal to the number of persons, who live below A. Therefore, A lives either on 9th floor or on 5th floor.



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	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7				
6				
5			A	Sanskrit
4				
3	G		G	
2				
1		Sanskrit		

4) One person lives between A and the one, who can speak Gujarati.

5) G s peaks either Telugu or Hindi.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8				
7		Gujrati		Gujrati
6				
5			A	Sanskrit
4				
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

- 6) E's floor number is half of C's floor number.
- 7) C does not live immediately above or immediately below G's floor.
- 8) One person lives between C and B, who can speak Odia.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A			
8	C		C	
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E		E	
3	G	Telegu / Hindi	G	Telegu / Hindi
2				
1		Sanskrit		

9) D lives immediately above J.

10) The one, who speaks English lives three floors above J.

11) The one, who can speak Assamese lives immediately above the one, who can speak Bengali.

12) The one, who can speak Assamese does not live on a prime numbered floor.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese		Assamese
8	C	Bengali	C	Bengali
7		Gujrati		Gujrati
6	B	Odia	B	Odia
5			A	Sanskrit
4	E	English	E	English
3	G	Telegu / Hindi	G	Telegu / Hindi
2	D		D	
1	J	Sanskrit	J	

13) F lives above H.

14) D neither speaks Telegu nor Kannada. Therefore, D speaks Hindi.

15) H cannot speak Kannada. Thus, the case I will be canceled.

	Case I		Case II	
Floor	Person	Language	Person	Language
9	A	Assamese	F	Assamese
8	C	Bengali	C	Bengali
7	F	Gujrati	H	Gujrati
6	B	Odia	B	Odia
5	H		A	Sanskrit
4	E	English	E	English
3	G	Telegu	G	Telegu
2	D	Hindi	D	Hindi
1	J	Sanskrit	J	

The final solution is,

Floor	Person	Language
9	F	Assamese
8	C	Bengali
7	H	Gujrati
6	B	Odia
5	A	Sanskrit
4	E	English
3	G	Telegu
2	D	Hindi
1	J	Kannada

Hence, H speaks Gujrati.

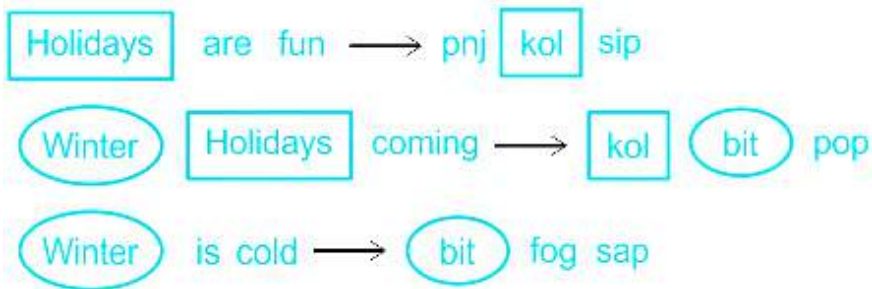
22. Answer: e

Explanation:

Statement I: "Holidays are fun" is coded as "pnj kol sip"

"Winter holidays coming" is coded as "kol bit pop"

"Winter is cold" is coded as "bit fog sap"



Word	Code
Holidays	Kol
Winter	Bit
Coming	Pop

Statement I is alone sufficient to answer the question.

Statement II: "They are coming" is coded as "pop top gig"

"How are they" is coded as "top sun gig"

They are coming → pop top gig

How are they → top sun gig

The code for 'They' and 'Are' are 'top' and 'gig'.

Therefore, the code for 'coming' is 'pop'.

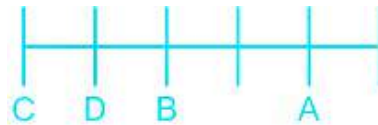
Statement II is alone sufficient to answer the question.

Hence, the correct option is 5.

23. Answer: d

Explanation:

Statement I: A sits second from one end. One person sits between A and B. C sits immediately left of D.



F sits to the right of C.

Hence, Statement I alone is not sufficient to answer the question.

Statement II: B sits third from one of the ends. F who does not sit at the corner is one of the positions right to B.

Case I



Case II



Case III



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One person sits between D and F. So, case II will be cancelled.

Case I



Case III

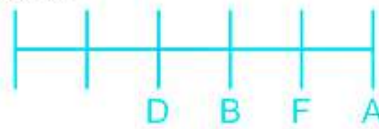


Two people sit between D and A.

Case I



Case III



Hence, Statement II alone is not sufficient to answer the question.
If we combine the both statements we get,



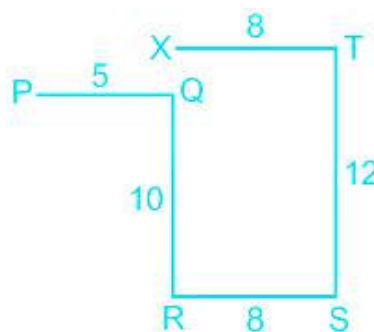
So by merging both statement C is third left of F.

Therefore, **both statements are necessary to answer the question.**

24. Answer: a

Explanation:

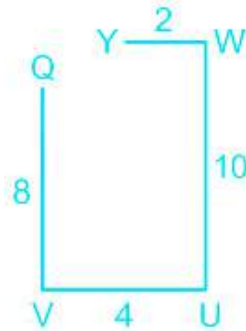
According to statement I:



Therefore, X is in the north direction with respect to Q.

Hence, **Statement I is alone sufficient to answer the question.**

According to statement II:



Here, we only know the distance between X and Y but the direction is not mentioned. So, we cannot draw point X in statement II.

Hence, **Statement II alone is not sufficient to answer the question.**

Hence, the correct option is 1.

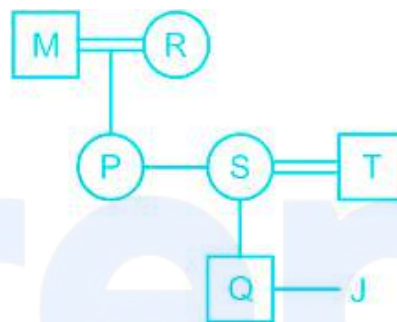
25. Answer: d

Explanation:

P is								
Symbol	@	#	\$	%	&	*	=	+
Meaning	Father	Mother	Husband	Wife	Son	Daughter	Sister	Brother
of Q								

- 1) R # P means R is mother of P.
- 2) P = S means P is sister of S.
- 3) S # Q means S is mother of Q.
- 4) Q + J means Q is brother of J.
- 5) R % M means R is the wife of M.
- 6) M @ S means M is the father of S.
- 7) S % T means S is the wife of T

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation



When we use sign & the J is Son of T and when * is used in that case J is daughter of T.
Hence, 'either option 1 or 2' will be the correct answer.

26. Answer: e

Explanation:

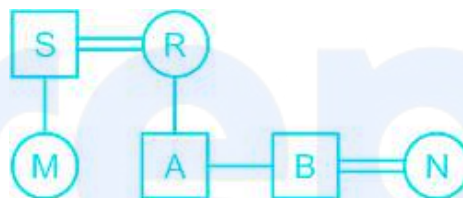
P is								
Symbol	@	#	\$	%	&	*	=	+
Meaning	Father	Mother	Husband	Wife	Son	Daughter	Sister	Brother
of Q								

- 1) M * S means M is daughter of S.
- 2) S \$ R means S is husband of R.
- 3) R # A means R is mother of A.

4) $A + B$ means A is brother of B.

5) $B \$ N$ means B is husband of N.

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation



N is the sister-in-law of M.

Hence, the correct answer is sister-in-law.

27. Answer: c

Explanation:

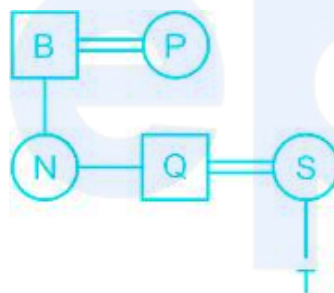
P is								
Symbol	@	#	\$	%	&	*	=	+
Meaning	Father	Mother	Husband	Wife	Son	Daughter	Sister	Brother
of Q								

1) $P \% B$ means P is wife of B.

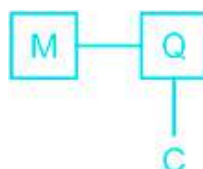
2) $B @ N$ means B is father of N.

- 3) $N = Q$ means N is sister of Q.
 4) $Q \$ S$ means Q is husband of S.
 5) $S \# T$ means S is mother of T.

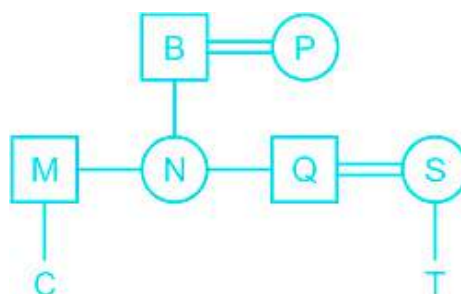
Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation



- 6) $Q + M$ means Q is brother of M.
 7) $M @ C$ means M is father of C.



Combining we get,



Hence, T is the cousin of C.

28. Answer: b

Explanation:

I) Children should play outdoor games to keep their body and mind fit and fine – **This action is true** as outdoor games keep one's healthy and prevent many health problems like obesity, muscular strain etc.

II) Parents should stop using mobile so that their children could not play mobile games – **This action is false** as parents should prohibit their children from playing mobile games but stopping using mobile is not an option.

III) Parents should tell their children to focus only on study not any kind of games – **This action is false** as playing is also important for children. It helps in the development of children's mind.

Hence, the correct option is 2.

29. Answer: d

Explanation:

An assumption is something that is supposed. Let's have a look at all statements given:

(A) Cognizant pays its employees even when they are not on billable projects – This is the **assumption** behind the decision taken by Cognizant. This is what bench time is all about.

(B) More layoffs will take place in Cognizant in the coming days – This is **not the assumption** rather it is the effect of the decision taken by Cognizant.

(C) Headcounts in Cognizant are definitely going to shrink in the days to come globally – This is also **not the assumption** just a definite statement about the future.

(D) The company is trying to reduce its overhead expenses incurred on the employees – This is also **not the assumption** as many employees can also be on billable projects.

(E) Pay and perk is set to decrease for Cognizant employees in the coming years – The passage is talking about bench time only and not anything about increased cost or

decreased profit that can result in the reduction of pay and perk. So, this is also **not the assumption**.

Hence, the correct answer is Only (A).

30. Answer: a

Explanation:

Let's have a look at all statements given:

(A) Cognizant pays its employees even when they are not on billable projects – This is the assumption behind the decision taken by Cognizant **not the effect**. This is what bench time is all about.

(B) More layoffs will take place in Cognizant in the coming days – This will be the **effect** of the decision taken by Cognizant.

(C) Headcounts in Cognizant are definitely going to shrink in the days to come globally – This will **not be the effect** as if the employees exit after completion of bench time then new employees can also be hired suitable for billable projects going on.

(D) The company is trying to reduce its overhead expenses incurred on the employees – This is also not the effect as many employees can also be on billable projects.

(E) Pay and perk is set to decrease for Cognizant employees in the coming years – The passage is talking about benchmark time only and not anything about increased cost or decreased profit that can result in the reduction of pay and perk. So, this also will not an effect.

Hence, the correct answer is Only (B).

31. Answer: b

Explanation:

Given:

9 persons – P, Q, R, S, T, U, V, W, X

3 states – Tripura, Manipur, and Assam

Maximum 4 and minimum 2 persons belong to each state.

The minimum age is 18 yrs.

Now,

1) S does not belong to Tripura and Assam. It means S belongs to Manipur.

2) Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. It means one state has 4 persons, one has 3 and the other one has 2 persons. We cannot determine the state of Q and the one who is 18 yrs old yet.

States	Persons
Tripura	
Manipur	S
Assam	

3) U and the one who is 29 yrs old belong to the same state and U's age is an odd number.

4) U is 5 yrs elder than Q and one of the ages is 51 yrs. If Q is 51 then U will be $51+5=56$ which is an even number. This contradicts condition 3). So the age of U is 51 years and the age of Q is 46 years. We cannot determine the state of U for now.

5) The one who is 53 yrs belongs to Tripura. It means Q who is 46 years old and the one who is 18 yrs old belongs to Assam.

States	Persons
Tripura	(53)
Manipur	S
Assam	Q (46), (18)

6) S age is twice of Q. Age of S = $46*2 = 92$ years.

7) P and S do not belong to the same state.

8) P is the eldest person in his/her respective state. It means P lives in Tripura. The age of P can be 53 or can't be 53.

Case I -

States	Persons
Tripura	P (53)
Manipur	S (92)
Assam	Q (46), (18)

Case II -

States	Persons
Tripura	P, (53)
Manipur	S (92)
Assam	Q (46), (18)

9) P and V do not belong to the same state.

10) V and T belong to the same state. It means they both belong to Manipur.

11) V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. T should be either 61 years old or 64 years old.

Case I (a) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case I (b) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

Case II (a) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case II (b) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

12) V is elder than Q. Combining this condition with condition 3) we get that V's age cannot be 29 so U and the one whose age is 29 belong to Tripura. There can be 3 persons in Tripura only as there are 4 persons in Manipur.

13) W and the one who is 54 yrs old belong to the same state. They belong to Manipur as this is the only possible case here. W's age can be either 61 or 64. V's age is 54 (more than 46).

14) V's age is 7 years less than W's age. So, $54 + 7 = 61$ is the age of W and 64 is the age of T.

15) R is not the youngest person. So, R's age is 29 and X, the remaining one, is the youngest person. P's age is 53 (eldest in the state).

The final arrangement is -

States	Persons
Tripura	P (53), U (51), R (29)
Manipur	S (92), V (54), W (61), T (64),
Assam	Q (46), X (18)

The age of V is 54 years.

Hence, the correct answer is **54**.

32. Answer: e

Explanation:

Given:

9 persons - P, Q, R, S, T, U, V, W, X

3 states - Tripura, Manipur, and Assam

Maximum 4 and minimum 2 persons belong to each state.

The minimum age is 18 yrs.

Now,

1) S does not belong to Tripura and Assam. It means S belongs to Manipur.

2) Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. It means one state has 4 persons, one has 3 and the other one has 2 persons. We cannot determine the state of Q and the one who is 18 yrs old yet.

States	Persons
Tripura	
Manipur	S
Assam	

- 3) U and the one who is 29 yrs old belong to the same state and U's age is an odd number.
- 4) U is 5 yrs elder than Q and one of the ages is 51 yrs. If Q is 51 then U will be $51+5=56$ which is an even number. This contradicts condition 3). So the age of U is 51 years and the age of Q is 46 years. We cannot determine the state of U for now.
- 5) The one who is 53 yrs belongs to Tripura. It means Q who is 46 years old and the one who is 18 yrs old belongs to Assam.

States	Persons
Tripura	(53)
Manipur	S
Assam	Q (46), (18)

- 6) S age is twice of Q. Age of S = $46*2 = 92$ years.
- 7) P and S do not belong to the same state.
- 8) P is the eldest person in his/her respective state. It means P lives in Tripura. The age of P can be 53 or can't be 53.

Case I -

States	Persons
Tripura	P (53)
Manipur	S (92)
Assam	Q (46), (18)

Case II -

States	Persons
Tripura	P, (53)
Manipur	S (92)
Assam	Q (46), (18)

9) P and V do not belong to the same state.

10) V and T belong to the same state. It means they both belong to Manipur.

11) V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. T should be either 61 years old or 64 years old.

Case I (a) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case I (b) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

Case II (a) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case II (b) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

12) V is elder than Q. Combining this condition with condition 3) we get that V's age cannot be 29 so U and the one whose age is 29 belong to Tripura. There can be 3 persons in Tripura only as there are 4 persons in Manipur.

13) W and the one who is 54 yrs old belong to the same state. They belong to Manipur as this is the only possible case here. W's age can be either 61 or 64. V's age is 54 (more than 46).

14) V's age is 7 years less than W's age. So, $54 + 7 = 61$ is the age of W and 64 is the age of T.

15) R is not the youngest person. So, R's age is 29 and X, the remaining one, is the youngest person. P's age is 53 (eldest in the state).

The final arrangement is -

States	Persons
Tripura	P (53), U (51), R (29)
Manipur	S (92), V (54), W (61), T (64),
Assam	Q (46), X (18)

Among the given options, X belongs to Assam.

Hence, the correct answer is **X**.

33. Answer: d

Explanation:

Given:

9 persons - P, Q, R, S, T, U, V, W, X

3 states – Tripura, Manipur, and Assam

Maximum 4 and minimum 2 persons belong to each state.

The minimum age is 18 yrs.

Now,

1) S does not belong to Tripura and Assam. It means S belongs to Manipur.

2) Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. It means one state has 4 persons, one has 3 and the other one has 2 persons. We cannot determine the state of Q and the one who is 18 yrs old yet.

States	Persons
Tripura	
Manipur	S
Assam	

3) U and the one who is 29 yrs old belong to the same state and U's age is an odd number.

4) U is 5 yrs elder than Q and one of the ages is 51 yrs. If Q is 51 then U will be $51+5=56$ which is an even number. This contradicts condition 3). So the age of U is 51 years and the age of Q is 46 years. We cannot determine the state of U for now.

5) The one who is 53 yrs belongs to Tripura. It means Q who is 46 years old and the one who is 18 yrs old belongs to Assam.

States	Persons
Tripura	(53)
Manipur	S
Assam	Q (46), (18)

6) S age is twice of Q. Age of S = $46*2 = 92$ years.

7) P and S do not belong to the same state.

8) P is the eldest person in his/her respective state. It means P lives in Tripura. The age of P can be 53 or can't be 53.

Case I -

States	Persons
Tripura	P (53)
Manipur	S (92)
Assam	Q (46), (18)

Case II -

States	Persons
Tripura	P, (53)
Manipur	S (92)
Assam	Q (46), (18)

9) P and V do not belong to the same state.

10) V and T belong to the same state. It means they both belong to Manipur.

11) V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. T should be either 61 years old or 64 years old.

Case I (a) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case I (b) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

Case II (a) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case II (b) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

12) V is elder than Q. Combining this condition with condition 3) we get that V's age cannot be 29 so U and the one whose age is 29 belong to Tripura. There can be 3 persons in Tripura only as there are 4 persons in Manipur.

13) W and the one who is 54 yrs old belong to the same state. They belong to Manipur as this is the only possible case here. W's age can be either 61 or 64. V's age is 54 (more than 46).

14) V's age is 7 years less than W's age. So, $54 + 7 = 61$ is the age of W and 64 is the age of T.

15) R is not the youngest person. So, R's age is 29 and X, the remaining one, is the youngest person. P's age is 53 (eldest in the state).

The final arrangement is -

States	Persons
Tripura	P (53), U (51), R (29)
Manipur	S (92), V (54), W (61), T (64),
Assam	Q (46), X (18)

$$R + S = 29 + 92 = 121.$$

Hence, the correct answer is **121**.

34. Answer: c

Explanation:

Given:

9 persons - P, Q, R, S, T, U, V, W, X

3 states - Tripura, Manipur, and Assam

Maximum 4 and minimum 2 persons belong to each state.

The minimum age is 18 yrs.

Now,

1) S does not belong to Tripura and Assam. It means S belongs to Manipur.

2) Q and the one who is 18yrs old belong to the same state and these are the only persons belonging to that state. It means one state has 4 persons, one has 3 and the other one has 2 persons. We cannot determine the state of Q and the one who is 18 yrs old yet.

States	Persons
Tripura	
Manipur	S
Assam	

- 3) U and the one who is 29 yrs old belong to the same state and U's age is an odd number.
- 4) U is 5 yrs elder than Q and one of the ages is 51 yrs. If Q is 51 then U will be $51+5=56$ which is an even number. This contradicts condition 3). So the age of U is 51 years and the age of Q is 46 years. We cannot determine the state of U for now.
- 5) The one who is 53 yrs belongs to Tripura. It means Q who is 46 years old and the one who is 18 yrs old belongs to Assam.

States	Persons
Tripura	(53)
Manipur	S
Assam	Q (46), (18)

- 6) S age is twice of Q. Age of S = $46 \times 2 = 92$ years.
- 7) P and S do not belong to the same state.
- 8) P is the eldest person in his/her respective state. It means P lives in Tripura. The age of P can be 53 or can't be 53.

Case I -

States	Persons
Tripura	P (53)
Manipur	S (92)
Assam	Q (46), (18)

Case II -

States	Persons
Tripura	P, (53)
Manipur	S (92)
Assam	Q (46), (18)

9) P and V do not belong to the same state.

10) V and T belong to the same state. It means they both belong to Manipur.

11) V, the one who is 61 yrs and the one who is 64 yrs belong to the same state. T should be either 61 years old or 64 years old.

Case I (a) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case I (b) -

States	Persons
Tripura	P (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

Case II (a) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, T (61), (64)
Assam	Q (46), (18)

Case II (b) -

States	Persons
Tripura	P, (53)
Manipur	S (92), V, (61), T (64)
Assam	Q (46), (18)

12) V is elder than Q. Combining this condition with condition 3) we get that V's age cannot be 29 so U and the one whose age is 29 belong to Tripura. There can be 3 persons in Tripura only as there are 4 persons in Manipur.

13) W and the one who is 54 yrs old belong to the same state. They belong to Manipur as this is the only possible case here. W's age can be either 61 or 64. V's age is 54 (more than 46).

14) V's age is 7 years less than W's age. So, $54 + 7 = 61$ is the age of W and 64 is the age of T.

15) R is not the youngest person. So, R's age is 29 and X, the remaining one, is the youngest person. P's age is 53 (eldest in the state).

The **final arrangement** is -

States	Persons
Tripura	P (53), U (51), R (29)
Manipur	S (92), V (54), W (61), T (64),
Assam	Q (46), X (18)

Among the given options, all except U belong to Manipur.

Hence, the correct answer is **U**.

35. Answer: b

Explanation:

As per the information given,

A is					
Symbol	#	\$	+	@	*
Meaning	$\leq$	$>$	$\geq$	$<$	$=$
to B					

Given Statement: $S @ T \$ Q + R; Q * P @ W$

On converting: $S < T > Q \geq R; Q = P < W$

On combining: $S < T > Q = P \geq R, S < T > Q = P < W, R \leq Q = P < W$

Conclusions:

I. $R \# W \rightarrow R \leq W \rightarrow \text{False}$ (as $R \leq Q = P < W$, therefore $R < W$)

II. $W \$ R \rightarrow W > R \rightarrow \text{True}$ (as $R \leq Q = P < W$, therefore $R < W$).

Hence, only conclusions II follows.

36. Answer: d

Explanation:

As per the information given,

A is					
Symbol	#	\$	+	@	*
Meaning	$\leq$	$>$	$\geq$	$<$	$=$
to B					

Given Statement: $S @ T \$ Q + R; Q * P @ W$

On converting: $S < T > Q \geq R; Q = P < W$

On combining: $S < T > Q = P \geq R, S < T > Q = P < W, R \leq Q = P < W$

Conclusions:

I. $R \# W \rightarrow R \leq W \rightarrow \text{False}$ (as $R \leq Q = P < W$, therefore $R < W$)

II. $W \$ R \rightarrow W > R \rightarrow \text{True}$ (as $R \leq Q = P < W$, therefore $R < W$).

III. $R @ T \rightarrow R < T \rightarrow \text{True}$ (as $T > Q = P \geq R$, therefore $R < T$)

Hence, only conclusions II and III follows.

37. Answer: b

Explanation:

As per the information given,

A is					
Symbol	#	\$	+	@	*
Meaning	$\leq$	$>$	$\geq$	$<$	$=$
to B					

Given Statement: $U @ V + W \# Y * X; V + P \$ Q$

On converting: $U < V \geq W \leq Y = X; V \geq P > Q$

On combining: $U < V \geq P > Q; Q < P \leq V \geq W \leq Y = X$

Conclusions:

I. $P \# X \rightarrow P \leq X \rightarrow \text{False}$ (as $P \leq V \geq W \leq Y = X$, therefore no specific relation mentioned between P and X)

II. $Q @ U \rightarrow Q < U \rightarrow \text{False}$ (as $U < V \geq P > Q$, therefore no specific relation mentioned between Q and U)

III. $W \# X \rightarrow W \leq X \rightarrow \text{True}$ (as $W \leq Y = X$, therefore $W \leq X$)

Hence, only conclusions III follow.

38. Answer: c

Explanation:

There is considerable reduction in the number of people affected by water-borne diseases in City X during this rainy season. Waterborne diseases are caused by drinking contaminated or dirty water. Contaminated water can cause many types of diarrheal diseases, including Cholera, and other serious illnesses such as Guinea worm disease, Typhoid, and Dysentery. The government has opened four new civil hospitals in City X in the beginning of the year to treat this disease by providing better Health Services. These

hospitals strive to help people improve their productivity and reduce risks of diseases and injury in a cost-effective way.

I. The number of people affected by water-borne diseases in City X during this rainy season and not over the past years. So, this can't be inferred from the passage.

II. The hospitals strive to help people improve their productivity and reduce risks of diseases and injury in a cost-effective way. But we cannot conclude that the people taking treatment are poor or rich. So, this cannot be inferred.

III. The government has opened four new civil hospitals in City X in the beginning of the year to treat this disease by providing better Health Services. These hospitals strive to help people improve their productivity and reduce risks of diseases and injury in a cost-effective way. So, this can be inferred.

IV. The hospital help people improve their productivity and reduce risks of diseases and injury in a cost-effective way. From this we cannot conclude that before this people had spent more money for their treatment. So, this cannot be inferred.

V. Drinking contaminated water cause water borne diseases including diarrheal disease. This is true but this is not the main inference to be taken.

Hence, **Option III is the answer**.

39. Answer: c

Explanation:

The passage is talking about the Smart city scheme that will be implemented by the government. So anything related to rural areas is out of scope; further creation of jobs in the rural sector has not been mentioned in the given passage.

The passage does not specify the activities planned by the government under the smart city scheme. Thus, options 1 and 4 will get eliminated.

Again, option 2 includes the impact of the scheme in the rural areas which is beyond the scope of the scheme.

This statement " The decision to make cities smart will be taken not by governments but by the people of the city " indicates that the scheme will involve citizen participation in some

respect. Thus, enhanced citizen and government engagement is a possible effect of the scheme.

Also, the scheme is meant for cities and effective management of urbanization. Therefore, one of the effects would be the implementation of reforms in urban governance.

Hence, Option 3 is the correct answer.

40. Answer: a

Explanation:

Given statement: China launched the second of the three modules needed to complete its new space station. This was the most recent development in Beijing's ambitious space project. A long march 5B rocket launched the unmanned spaceship with call sign Wentian from the Wenchang launch facility on China's tropical island success.

Inference I: "China will launch another unmanned spaceship into the space" **can be inferred** as it is a three series space module and the second of them has been released, hence another launch is also planned to take place.

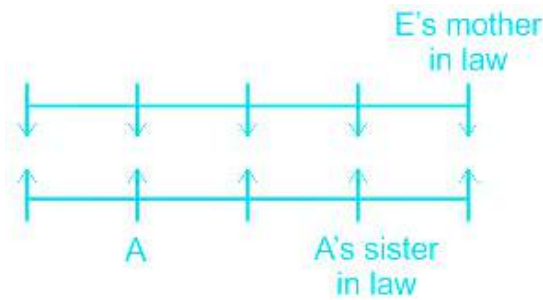
Inference II: "China is building the space project to infest other countries " **cannot be inferred**, it may be true in general known facts but since no mention of other countries is there we cannot directly take it as a possibility according to the passage.

Hence, Only I can be inferred.

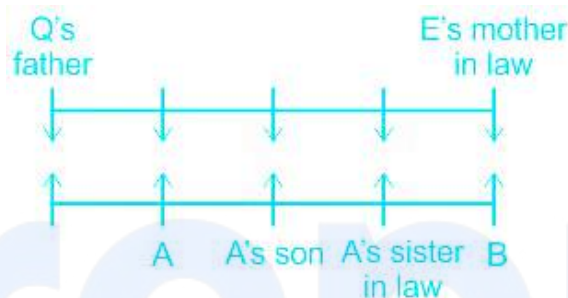
41. Answer: c

Explanation:

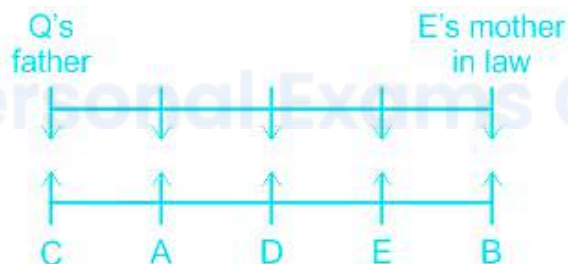
- 1) A sits 2nd from one of the ends.
- 2) E's mother-in-law sits opposite to the one who sits 3rd to the right of A.
- 3) One person sits between A and her sister-in-law. Therefore, A is female.



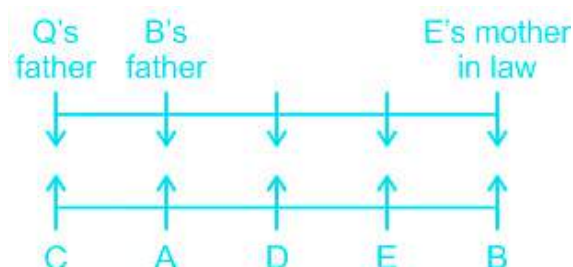
- 4) Three persons sits between B and the person sitting opposite to Q's father.
 5) A's son sits immediate right of A.



- 6) C and D are unmarried. Therefore, neither C nor D is an immediate neighbour of B and so E will be A's sister-in-law.
 7) C does not sit next to E. Therefore, C would be at the corner and D would be A's son.



- 8) B is married to E who has one child. Therefore, B is male.
 9) B's father faces A who has two children one son and one daughter.

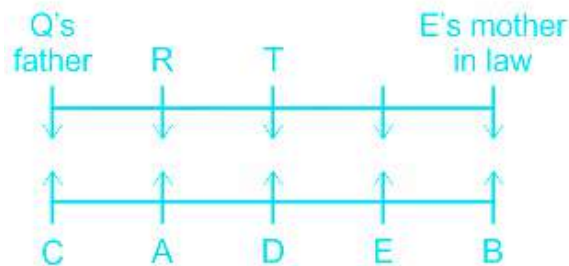


E is sister-in-law of A. Therefore, B is the brother of A.

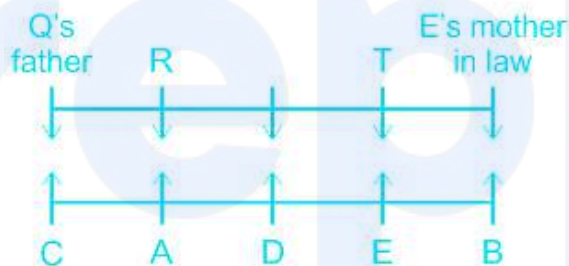
10) R faces immediate neighbour of A's niece. Therefore, C is A's niece and daughter of B and E. We also know that R is B's father.

11) R sits to the right of T.

Case -II

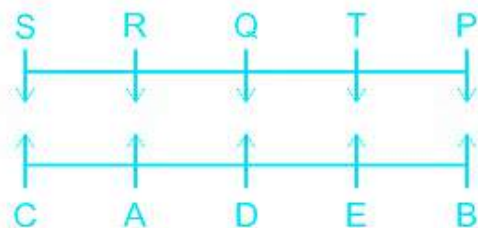


Case -II



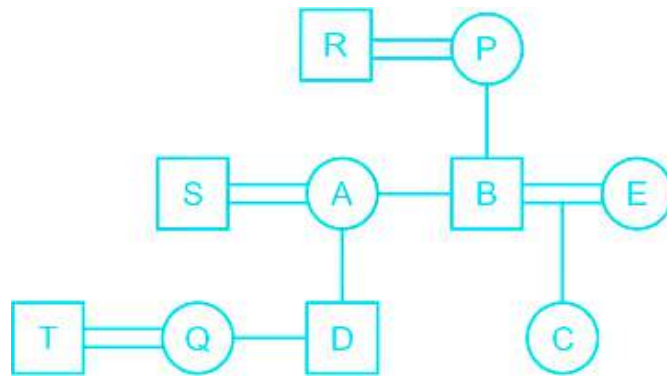
12) P and her granddaughter Q are not sitting together. Therefore, case I will be cancelled. Clearly S is Q's father.

Case -II

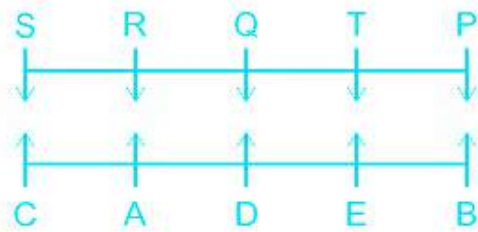


13) Q is married. Therefore, T is the husband of Q.

The final solution is,



Case -II

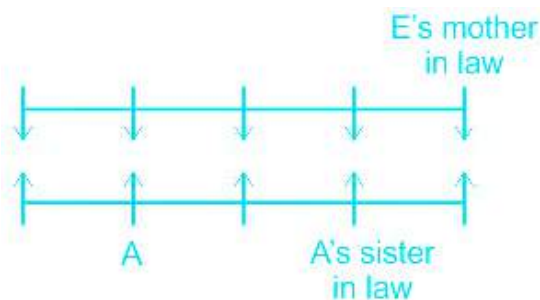


Hence, C is cousin of Q.

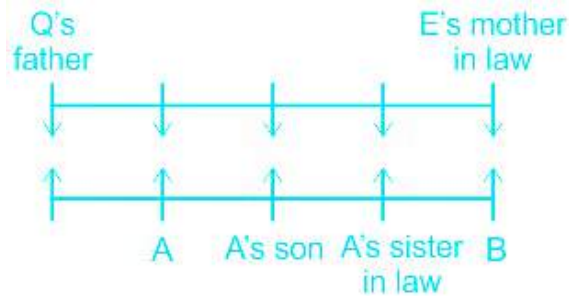
42. Answer: b

Explanation:

- 1) A sits 2nd from one of the ends.
- 2) E's mother-in-law sits opposite to the one who sits 3rd to the right of A.
- 3) One person sits between A and her sister-in-law. Therefore, A is female.

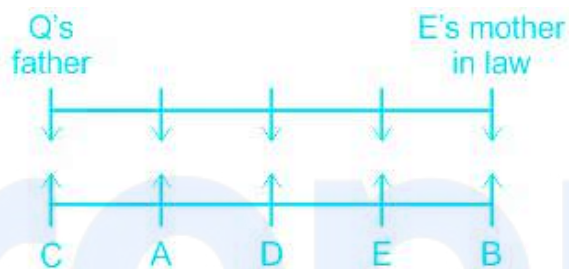


- 4) Three persons sits between B and the person sitting opposite to Q's father.
- 5) A's son sits immediate right of A.



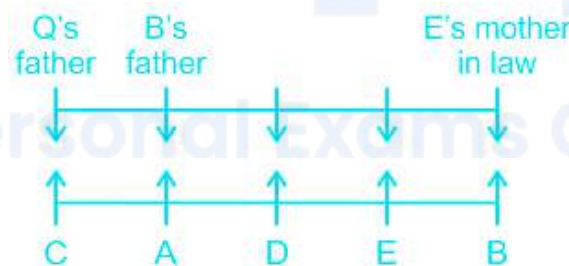
6) C and D are unmarried. Therefore, neither C nor D is an immediate neighbour of B and so E will be A's sister-in-law.

7) C does not sit next to E. Therefore, C would be at the corner and D would be A's son.



8) B is married to E who has one child. Therefore, B is male.

9) B's father faces A who has two children one son and one daughter.

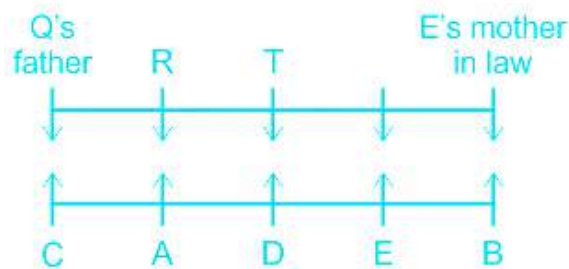


E is sister-in-law of A. Therefore, B is the brother of A.

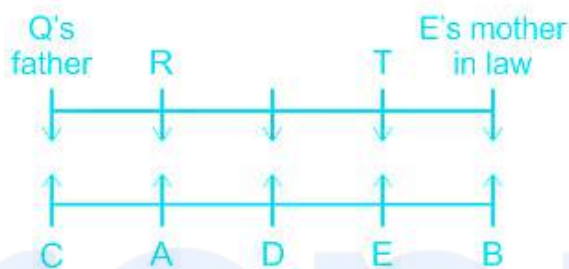
10) R faces immediate neighbour of A's niece. Therefore, C is A's niece and daughter of B and E. We also know that R is B's father.

11) R sits to the right of T.

Case -II

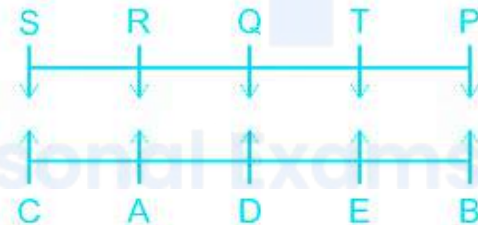


Case -II

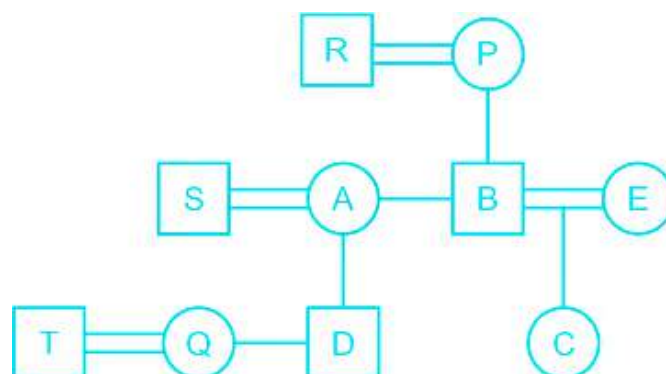


12) P and her granddaughter Q are not sitting together. Therefore, case I will be cancelled. Clearly S is Q's father.

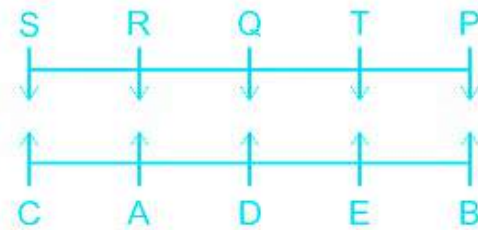
Case -II



13) Q is married. Therefore, T is the husband of Q.
The final solution is,



Case -II

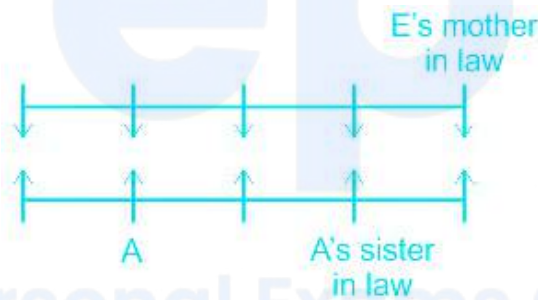


Hence, the correct answer is R.

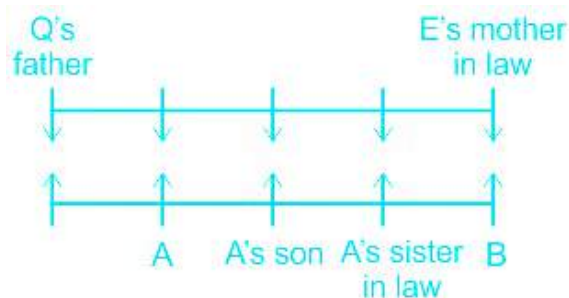
43. Answer: e

Explanation:

- 1) A sits 2nd from one of the ends.
- 2) E's mother-in-law sits opposite to the one who sits 3rd to the right of A.
- 3) One person sits between A and her sister-in-law. Therefore, A is female.



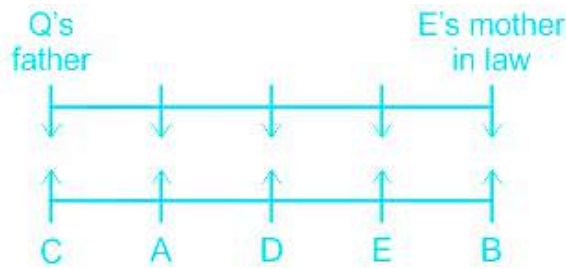
- 4) Three persons sits between B and the person sitting opposite to Q's father.
- 5) A's son sits immediate right of A.



- 6) C and D are unmarried. Therefore, neither C nor D is an immediate neighbour of B and so

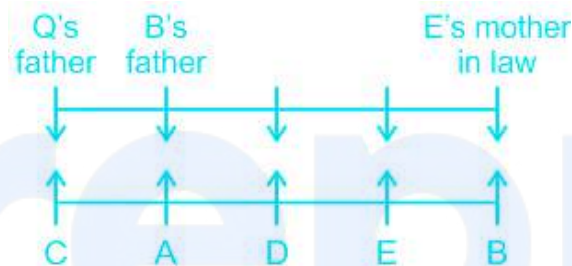
E will be A's sister-in-law.

7) C does not sit next to E. Therefore, C would be at the corner and D would be A's son.



8) B is married to E who has one child. Therefore, B is male.

9) B's father faces A who has two children one son and one daughter.

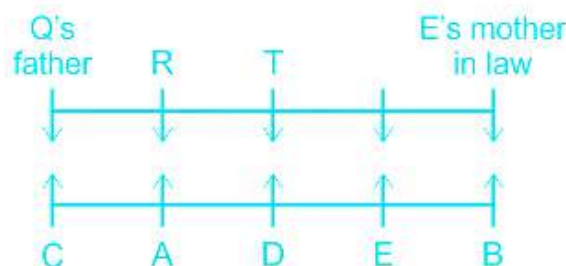


E is sister-in-law of A. Therefore, B is the brother of A.

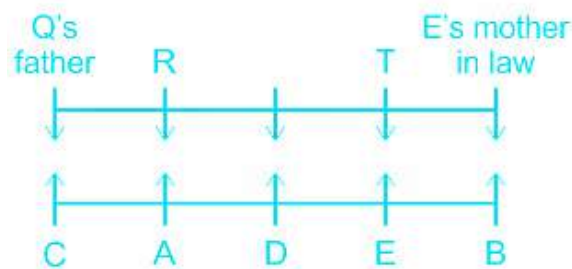
10) R faces immediate neighbour of A's niece. Therefore, C is A's niece and daughter of B and E. We also know that R is B's father.

11) R sits to the right of T.

Case -II

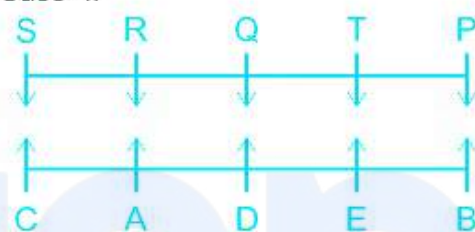


Case -II

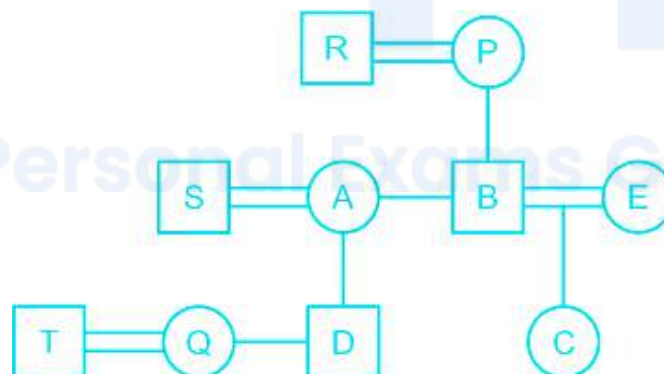


12) P and her granddaughter Q are not sitting together. Therefore, case I will be cancelled. Clearly S is Q's father.

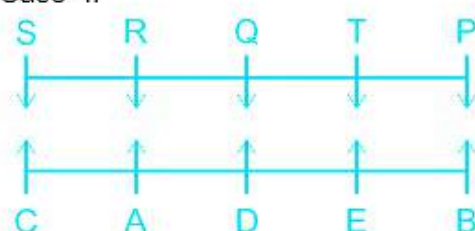
Case -II



13) Q is married. Therefore, T is the husband of Q. The final solution is,



Case -II

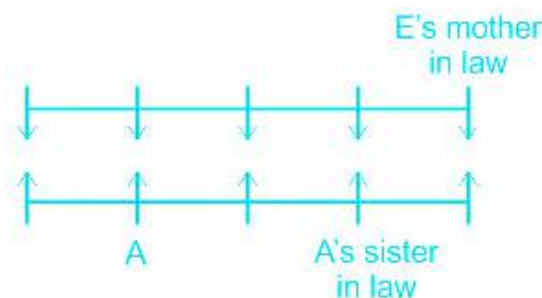


Hence, T is the son-in-law of A.

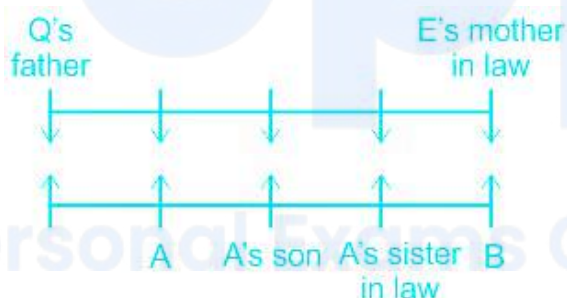
44. Answer: d

Explanation:

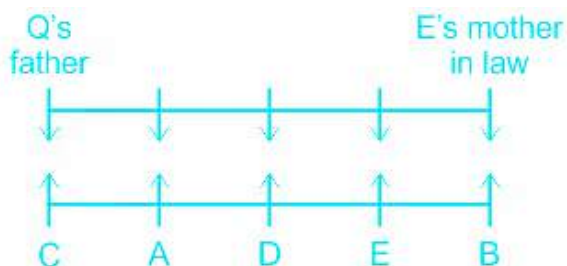
- 1) A sits 2nd from one of the ends.
- 2) E's mother-in-law sits opposite to the one who sits 3rd to the right of A.
- 3) One person sits between A and her sister-in-law. Therefore, A is female.



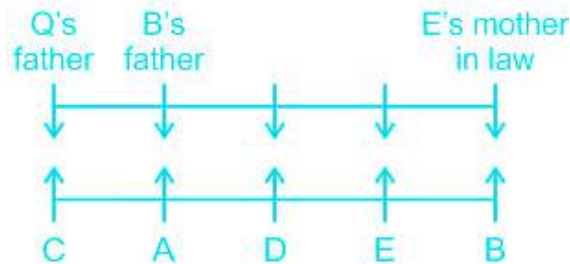
- 4) Three persons sits between B and the person sitting opposite to Q's father.
- 5) A's son sits immediate right of A.



- 6) C and D are unmarried. Therefore, neither C nor D is an immediate neighbour of B and so E will be A's sister-in-law.
- 7) C does not sit next to E. Therefore, C would be at the corner and D would be A's son.



- 8) B is married to E who has one child. Therefore, B is male.
 9) B's father faces A who has two children one son and one daughter.

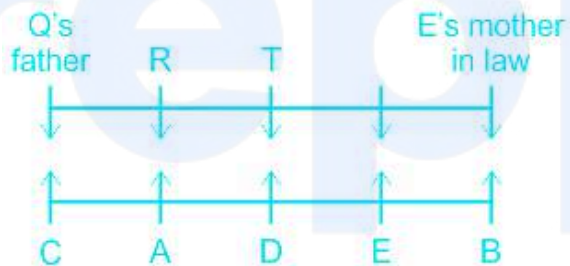


E is sister-in-law of A. Therefore, B is the brother of A.

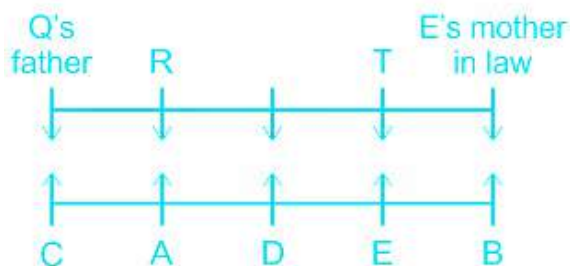
- 10) R faces immediate neighbour of A's niece. Therefore, C is A's niece and daughter of B and E. We also know that R is B's father.

- 11) R sits to the right of T.

Case -II

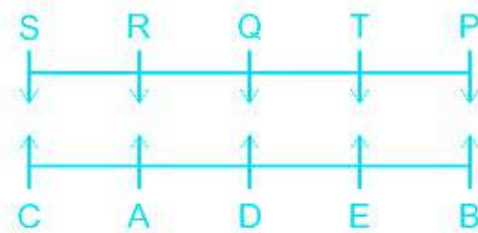


Case -II



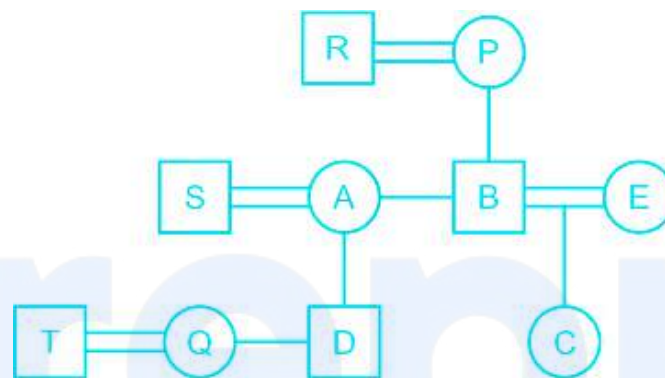
- 12) P and her granddaughter Q are not sitting together. Therefore, case I will be cancelled. Clearly S is Q's father.

Case -II

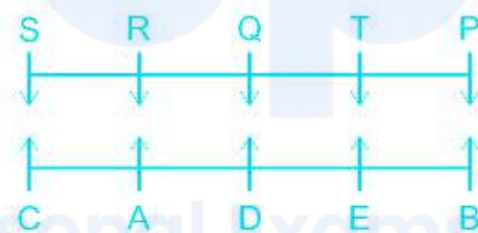


13) Q is married. Therefore, T is the husband of Q.

The final solution is,



Case -II

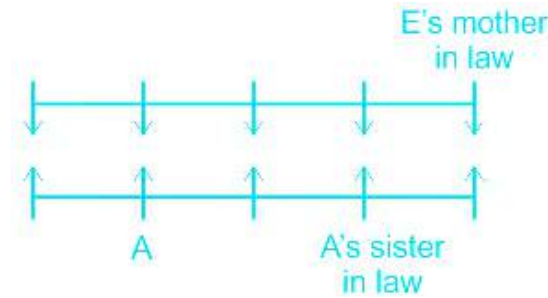


Hence, D sits opposite to the one who sits immediate left of R.

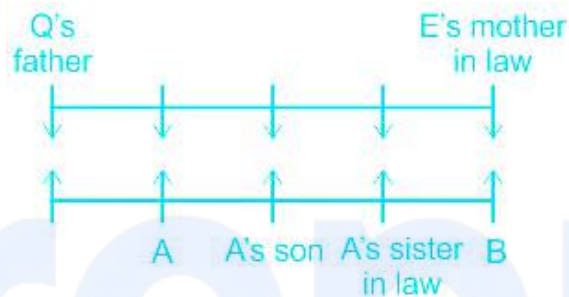
45. Answer: b

Explanation:

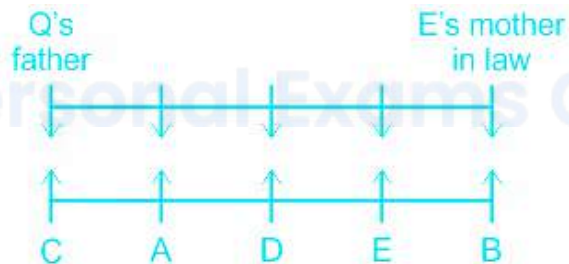
- 1) A sits 2nd from one of the ends.
- 2) E's mother-in-law sits opposite to the one who sits 3rd to the right of A.
- 3) One person sits between A and her sister-in-law. Therefore, A is female.



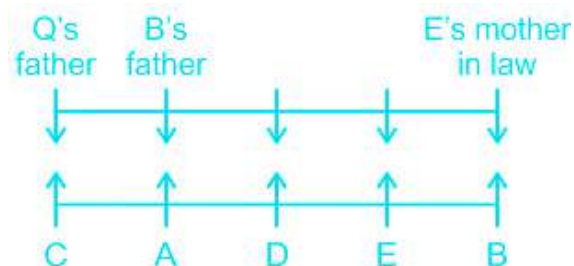
- 4) Three persons sits between B and the person sitting opposite to Q's father.
 5) A's son sits immediate right of A.



- 6) C and D are unmarried. Therefore, neither C nor D is an immediate neighbour of B and so E will be A's sister-in-law.
 7) C does not sit next to E. Therefore, C would be at the corner and D would be A's son.



- 8) B is married to E who has one child. Therefore, B is male.
 9) B's father faces A who has two children one son and one daughter.

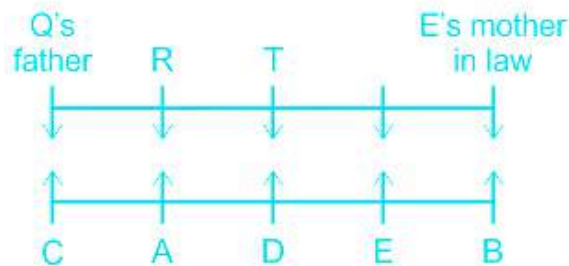


E is sister-in-law of A. Therefore, B is the brother of A.

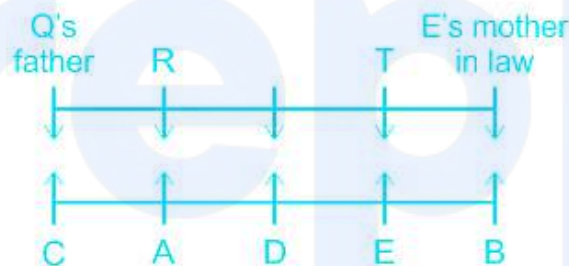
10) R faces immediate neighbour of A's niece. Therefore, C is A's niece and daughter of B and E. We also know that R is B's father.

11) R sits to the right of T.

Case -II

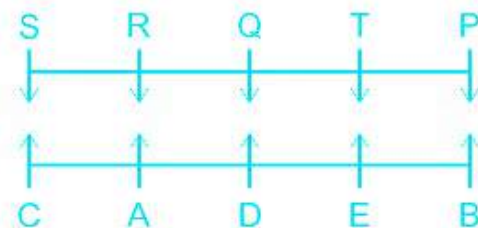


Case -II



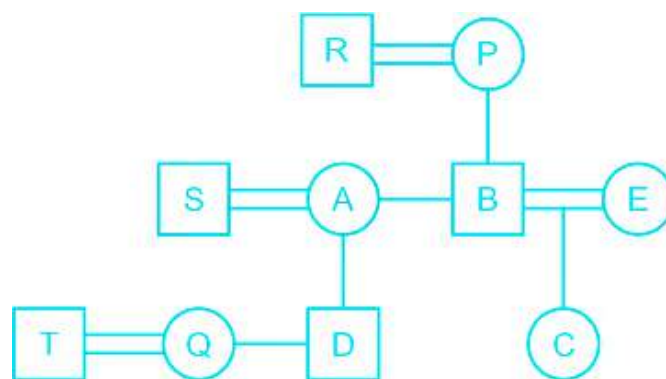
12) P and her granddaughter Q are not sitting together. Therefore, case I will be cancelled. Clearly S is Q's father.

Case -II

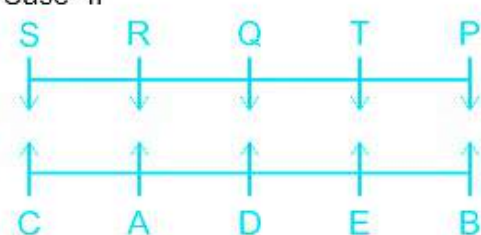


13) Q is married. Therefore, T is the husband of Q.

The final solution is,



Case -II



Hence, P is the mother-in-law of E.

46. Answer: b

Explanation:

The correct answer is 6.15

★ Key Points

- The Monetary Policy Committee of the **Reserve Bank of India** has decided to increase **Bank Rate to the 6.15 percent, with immediate effect.**
- The repo rate is the interest rate at which the central bank lends to commercial banks.
- The RBI has raised the repo rate by **1.9 percent** since May 2022.
- RBI also projected real GDP growth for **2022-23 at 7.0 percent.**

★ Additional Information

- RBI:
 - **Governor** – Shaktikanta Das.
 - **Headquarters** – Mumbai.
 - **Founded:** 1 April 1935, Kolkata.

- The Bank publishes two statutory reports, the **Annual Report of the Bank and the Report on Trend and Progress of Banking in India**.
- It also publishes **Financial Stability Report**.

47. Answer: c

Explanation:

The correct answer is Lakshadweep.

★ Key Points

- **Minicoy, Thundi Beach and Kadmat Beach**, in Lakshadweep are the proud entrants in the coveted list of Blue Beaches, an eco-label given to the cleanest beaches in the world.
- As of October 2022, the tally of total blue flag-endorsed beaches in India stands at **12**.
- Both beaches have designated staff for beach cleanliness, maintenance, safety, and security of swimmers.
- Further, they comply with all the 33 criteria mandated by the **Foundation for Environment Education (FEE)**.
- **Blue Beaches: Thundi and Kadmat beaches**
 - Thundi Beach is one of the most scenic beaches in the Lakshadweep archipelago with hues of white sand mixed with turquoise & blue shade water by the lagoon, a paradise for swimmers and tourists.
 - While Kadmat Beach is popular with cruise tourists who visit the island for water sports. It is a paradise for nature lovers with its pearl white sand, blue lagoon waters, moderate climate and friendly locals.
- The other Indian beaches in the blue list are
 - Kappad: Kerala,
 - Shivrajpur: Gujarat,
 - Ghoghla: Diu,
 - Kasarkod and Padubidri: Karnataka,
 - Rushikonda: Andhra Pradesh,
 - Golden: Odisha,
 - Radhanagar: Andaman and Nicobar,
 - Eden in Puducherry and
 - Kovalam in Tamil Nadu.

- **Blue Flag tag-** The Blue Flag is an eco-label (certification) awarded to beaches, marinas and sustainable boat tourism operators that meet a comprehensive set of requirements.

48. Answer: d

Explanation:

The correct answer is DAKSH.

★ Key Points

- The RBI Governor **Shaktikanta Das** on 6th Oct 2022 launched a web-based application called 'DAKSH', to make the supervisory processes more robust.
- It will monitor compliance requirements **in a more focused manner** with the objective of further improving the compliance culture in Supervised Entities like Banks & NBFCs.
- It will also **enable cyber incident** reporting & analysis.

★ Additional Information

- RBI released the 'Quarterly Statistics on Deposits and Credit of SCBs for June 2022'.
- RBI imposed certain restrictions on Kerala-based Thodupuzha Urban Co-operative Bank for a period of six months due to its deteriorating financial condition.
- The Competition Commission of India (CCI) has approved HSBC's acquisition of L&T Investment Management Ltd., the investment manager for L&T Mutual Fund.
- The \$425 million deal involves HSBC buying the entity from its parent L&T Finance Holdings Ltd. (LTFH).
- RBI:
 - RBI 25th Governor: Shaktikanta Das
 - RBI Headquarters: Mumbai
 - RBI Founded: 1 April 1935, Kolkata

49. Answer: d

Explanation:

The Correct answer is Norway.

★ Key Points

- Tennis player Carlos Alcaraz has won the title match of US Open 2022, he is from Spain.
- In the men's singles final, the Spanish player defeated Casper Rood of Norway 6-4, 2-6, 7-6, 6-3.
- With this win, Alcaraz has also become the world's number one tennis player.
- This is Alcaraz's 51st Tour level win this season.
- Carlos Alcaraz has become the youngest player after Pete Sampras to win the US Open title.
- Sampras became the youngest champion in 1990.
- At the same time, Alcaraz was successful in winning the Grand Slam title, becoming the second youngest player in Spain after the legendary Rafael Nadal.
 - Nadal won the French Open title in 2005.
- In addition, Alcaraz is the fourth player from Spain to become the world's number one player after his coaches Juan Carlos Ferrero, Carlos Moya, and Rafael Nadal.

★ Additional Information

- **US Open 2022**
 - The 2022 US Open was the 142nd edition of the tennis US Open.
 - It was the fourth and final Tennis Major (Grand Slam event) of the year.
 - It was held on outdoor hard courts at the USTA Billie Jean King National Tennis Center in New York City.
 - Carlos Alcaraz and Inga Swiatek won the men's and women's singles titles respectively.

50. Answer: d

Explanation:

The correct answer is '57th'.

★ Key Points

- **Rishi Sunak** will become the 57th UK's next prime minister on October 25, after meeting King Charles at Buckingham Palace.
- He will become the UK's first British Asian Prime Minister.
- 42-year-old Rishi Sunak becomes Britain's third Prime Minister in less than two months as Boris Johnson and Liz Truss have resigned from their posts.

- Rishi Sunak is a British politician who is Prime Minister-designate of the United Kingdom and has served as Leader of the Conservative Party since 24 October 2022.
- He previously served as Chancellor of the Exchequer and Chief Secretary to the Treasury.
- He has also been the Member of Parliament (MP) for Richmond (Yorks) since 2015.

★ **Additional Information**

- Former UK Prime Minister Liz Truss resigned from the post just six weeks after her appointment. She became the shortest-serving prime minister in British history, just for 45 days.
- George Canning previously held the record, serving 119 days in 1827 when he died.

51. **Answer: b**

Explanation:

The correct answer is **Arunachal Pradesh.**

★ **Key Points**

- PM Narendra Modi inaugurated the Donyi Polo Airport at Itanagar in **Arunachal Pradesh** on 19 November 2022.
- It is the **first Greenfield Airport** in the state.
- It is equipped with ultra-modern facilities to ensure all-weather operations.
- The name of the airport is given after Donyi and Polo, i.e. Sun and Moon.

★ **Additional Information**

- **Arunachal Pradesh** is popularly known as the **Land of the Dawn-lit Mountains**.
- Arunachal Pradesh is India's remotest state and the **first Indian state** to greet the **rising sun**.
- It was formed from the erstwhile **North-East Frontier Agency region** and became a state on **20 February 1987**.
- It borders the states of **Assam** and **Nagaland** to the south.
- **Solung** is the most popular festival of the Adis of Arunachal Pradesh which is celebrated on **September 1** every year.
 - Capital: Itanagar
 - Chief minister: Pema Khandu

52. Answer: b

Explanation:

The correct answer is 'Bangladesh'

★ Key Points

- **India ranked 132 out of 191 countries** in the 2021 human development index (HDI), according to a report released by the United Nations Development Programme (UNDP).
- Among India's neighbours, Sri Lanka (73rd), China (79th), Bangladesh (129th) and Bhutan (127th), Nepal (143rd) and Pakistan (161th). are ranked above India.
- **Switzerland remained at the top spot**, followed by Norway and Iceland.
- India ranked 131 in the 2020 index.

★ Additional Information

- Important Ranking and Index:
 - India ranks 135 among a total of 146 countries in the Global Gender Gap Index 2022.
 - Austrian capital Vienna has been ranked as the world's most liveable city in the report 'Global Liveability Index 2022'.
 - Vienna replaced New Zealand's Auckland city as the most liveable city.
 - Kerala has been ranked first in Asia in Affordable Talent in Global Startup Ecosystem Report (GSER) 2022.
 - India has jumped six positions to 37th rank on the annual World Competitiveness Index for the year 2022.
 - Denmark has been ranked at the top while Switzerland has been ranked at second position.
 - According to a report by the United Nations Conference on Trade and Development (UNCTAD), around 7.3% of Indians owned some form of digital currency in 2021.
 - The website of the Ministry of Home Affairs (MHA) has been ranked first under the Central Ministries Portal in National e-Governance Service Delivery Assessment.

53. Answer: c

Explanation:

The correct answer is Varanasi.

★ Key Points

- **Varanasi will be the first city in Shanghai Cooperation Organisation (SCO) region to be granted the rotating title of 'Cultural & Tourism capital of SCO'.**
- It will become the Capital for 2022-23 under a new rotating initiative **by the SCO to promote people-to-people contacts** and tourism among the member states.

★ Additional Information

- The Shanghai Cooperation Organisation (SCO) is a Eurasian political, economic and security alliance.
- In terms of geographic scope and population, it is the world's largest regional organization.
- It covers approximately 60% of the area of Eurasia, 40% of the world's population, and more than 30% of global GDP.
- **The SCO currently comprises eight Member States (China, India, Kazakhstan, Kyrgyzstan, Russia, Pakistan, Tajikistan and Uzbekistan).**
- **The Shanghai Cooperation Organisation:**
 - **Headquarters:** Beijing, China
 - **Founded:** 15 June 2001
 - **Founders:** Russia, China, Uzbekistan, Kazakhstan, Tajikistan, Kyrgyzstan

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54. Answer: a

Explanation:

The correct answer is '**TATA Advanced Systems Limited**'

★ In News

- Prime Minister Shri Narendra Modi laid the foundation stone of the **C-295 transport aircraft manufacturing facility – the country's first in the private sector – in Vadodara, Gujarat** on October 30, 2022.
 - The facility will manufacture **C-295 aircraft** for the Indian Air Force (IAF) through collaboration between **Tata Advanced Systems Limited and Airbus Defence and**

Space S.A., Spain.

- This is the **first project of its kind** in which a military aircraft will be manufactured in **India by a private company**.
- The total cost of the project is Rs 21,935 crore.
- The aircraft can be used for **civilian purposes as well**.
- **Sixteen (16) aircraft** will be delivered in flyaway condition.
 - They are scheduled to be received between **September 2023 and August 2025**.
 - Remaining forty (40) will be manufactured at the Vadodara manufacturing facility. The first Made in India aircraft is expected in September 2026.



★ Important Points

- The C-295 is a **transport aircraft of 5-10 tonne capacity** with contemporary technology that will **replace the aging Avro aircraft of IAF**.
 - Robust and reliable, it is a versatile and efficient tactical transport aircraft that can perform a number of different missions.
 - The aircraft, with a **flight endurance of up to 11 hours**, can carry out multi-role operations under all weather conditions.
 - It can routinely operate day as well as night combat missions from desert to maritime environments.
 - It has a **rear ramp door for quick reaction and para-dropping of troops and cargo**.
 - **Short take-off/land from semi-prepared surfaces** is another of its features.

55. Answer: d

Explanation:

The correct answer is 'On the reduction of the risk of financial crises developing into long-term depressions.'

★ Key Point

- The Nobel Prize in economics 2022 has been given to **US economists Ben S. Bernanke, Douglas Diamond, Philip H. Dybvig.**
- The trio's **research reduces the risk of financial crises developing into long-term depressions with severe consequences for society.**
- Bernanke's work – Former US Federal Reserve chairman Ben Bernanke analysed the Great Depression of the 1930s.
- Among other things, he showed how bank runs were a decisive factor in the crisis becoming so deep and prolonged.
- Using historical sources and statistical methods, his analysis showed which factors were important in the drop in gross domestic product.

56. Answer: b

Explanation:

The correct answer is 'Navi Mumbai'.

★ Key Points

- The world's largest exclusive business platform for the spice sector, 14th World Spice Congress (WSC), organized by Spices Board India in association with various trade and export forums, is scheduled to be held at CIDCO Exhibition and Convention Centre in **Navi Mumbai, Maharashtra** during 16-18 February 2023.
- Over 1000 delegates from more than 50 countries are expected to participate in the event.
- This biennial event organized by Spices Board India remains the premier platform that brings the global spice industry together to deliberate on the problems and prospects in the spices sector.

- The event looks forward to deliberations on aspects such as production, processing, value addition, quality and safety, trade, and supply chain management of spices in the new normal situation.
- The Regulatory Authorities from major importing countries and Ministry of Trade and Export Promotion agencies of the G20 member countries are expected to have deliberations with Indian Spice Industry.
- The theme chosen for the current edition of WSC is 'Vision 2030: SPICES' (Sustainability– Productivity – Innovation – Collaboration– Excellence and Safety).

★ Additional Information

- The Spices Board is the Indian government regulatory and export promotion agency for Indian spices, headquartered in Kochi.
- Spices Board was constituted in 1987 under Spices Board Act 1986 with the responsibility of production/development of cardamom and export promotion of 52 spices shown in the schedule of the Act.

57. Answer: d

Explanation:

The correct answer is Rs. 1.76 crores.

★ Key Points

- RBI has imposed heavy penalties on several financial entities for violation of various norms.
- The penalties went as high as **Rs. 1.76 crores for Vakrangee Ltd**, which was fined for non-compliance with some provisions related to **White Label ATM (WLA) directions**.
- It has imposed a **Rs 30 lakh penalty on The Jammu and Kashmir State Co-operative Bank Ltd**; **Rs 5 lakh each on LIC Housing Finance**.

★ Important Points

- The **Nagar Sahakari Bank Ltd, Maharajganj, Uttar Pradesh** has been levied a fine of **₹4 lakh** while an **Rs. 2 lakh** fine was imposed on **Karnataka-based the City Co-operative Bank Ltd** and **Uttar Pradesh-based Banda Urban Co-operative Bank Ltd**.

★ Additional Information

- The central bank also launched the first pilot of the Digital Rupee with nine banks, including **SBI, HDFC Bank and ICICI Bank**, issuing the virtual currency for transactions in government securities.
- The pilot project will involve nine banks: **State Bank of India (SBI), Bank of Baroda, Union Bank of India, HDFC Bank, ICICI Bank, Kotak Mahindra Bank, Yes Bank, IDFC First Bank, and HSBC.**

58. Answer: e

Explanation:

The correct answer is UCO bank

★ Key Points

- **UCO Bank** has received the RBI's approval to open a special vostro account with Gazprombank of Russia for trade settlement in Indian rupees.
- With this, it has become the first bank **to receive RBI's approval** to settle trade in Indian currency.
- On 11 July 2022, RBI issued a circular allowing trade settlements between India and other countries in rupee.

★ Additional Information

- UCO Bank is one of the nationalised banks in India.
- It is under the ownership of the Ministry of Finance, Government of India.
- Based on 2020 data, it is ranked 80 on the Fortune India 500 list.
- **UCO Bank:**
 - Headquarters: Kolkata
 - CEO: Soma Sankara Prasad (1 Jan 2022–)
 - Founded: 6 January 1943
 - Founder: Ghanshyam Das Birla

59. Answer: b

Explanation:

The correct answer is '6 days'

★ Key Points

- Market regulator SEBI has reduced the time taken for the listing of such emerging investment vehicles to six working days from the present 12 days.
- The decision is taken to streamline the process of public issue of units of REIT and InvIT.
- The new rule will apply to a public issue of units of Real Estate Investment Trust (REIT) and Infrastructure Investment Trust (InvIT), which opens on or after June 1.
- The move is aimed at making the existing process of issuance of such emerging investment vehicles simpler and more cost-effective.
- The regulator has asked Self Certified Syndicate Banks (SCSBs), stock exchanges, depositories, and intermediaries to coordinate to ensure completion of listing (through the public issue) and commencement of trading of units of REIT and InvIT within six working days from the date of closure of the issue.
- REITs and InvITs are relatively new investment instruments in the Indian context but are extremely popular in global markets.
- While a REIT comprises a portfolio of commercial real assets, a major portion of which is already leased out, InvITs comprise a portfolio of infrastructure assets, such as highways and power transmission assets.
- As of March 2021, a total of 15 InvITs and four REITs were registered and of these, six InvITs and three REITs were listed on the stock exchanges.

60. Answer: d

Explanation:

The correct answer is Konark.

★ Key Points

- The **ninth edition** of the International Sand Art Festival has begun at the **Chandrabhaga Beach of Konark** in Odisha's **Puri district**.
- **Sudarsan Pattnaik**, world-renowned sand artist and Padmashree Awardee, has been appointed as **Chief Curator of the festival**.
- Every year, the festival is celebrated with great fervour in the **first week of December**.
- The sand art Festival displays Spectacular sand art by skilful artists from India and around the world.

★ Additional Information

- World-recognised sand artists from Mexico, Spain, Singapore, France, Norway, Germany, Netherlands, etc.
- The theme of the 2020 event is ' **Environment and covid-19**.
- **70 artists from across India**.
- The International Sand Art Festival was **started in 2015** on Chandrabhaga beach, a short distance from Konark.
- **12th International Sand Art Festival**, 2022 scheduled to be held on **1st – 5th December 2022** at Chandrabhaga Beach near Konark, Dist. Puri, Odisha.

★ Important Points

- **About Odisha.**
 - Capital- **Bhubaneswar** .
 - Chief-Minister- **Naveen Patnaik**
 - Governor- **Ganeshi Lal**
 - Odisha is famous for its heritage sites and enthralling view

61. Answer: d

Explanation:

The correct answer is ICICI Prudential Mutual Fund.

★ Key Points

- **ICICI Prudential Mutual Fund** has launched India's first Auto Index Fund: ICICI Prudential Nifty Auto Index Fund.
- It is an open-ended index scheme replicating **Nifty Auto Index**.
- It is designed to reflect the behaviour & performance of the automobile segment of the financial market

★ Additional Information

- ICICI Prudential Mutual Fund is the second largest asset management company in India.
- ICICI Prudential Mutual Fund was established in 1993.
- The AMC is a joint venture between ICICI Bank in India and Prudential Plc, one of the UK's largest players in the financial services sectors.

- CEO: Nimesh Shah (26 Jul 2007–)
- Headquarters: Mumbai

62. Answer: c

Explanation:

The correct answer is HDFC Bank.

★ Key Points

- **HDFC Bank**, India's largest private sector bank, became the **first bank** in the country to **issue an Electronic Bank Guarantee** (e-BG) in **partnership** with National E-Governance Services Limited (**NeSL**).
- The paper-based, **time-consuming process** has been **eliminated** with the new electronic bank guarantees that can be processed, stamped, verified, and delivered instantly with enhanced security.
- e-BG has been developed in consultation with NeSL, **CVC-CBI** committee, and **IBA** to simplify the process and eliminate the possibility of fraud and manipulation.

★ Additional Information

HDFC Bank Limited

Founded In	August 1994
Chairman, CEO	Atanu Chakraborty, Sashidhar Jagdishan
Awards in 2022	Best Bank In India: Euromoney Awards for Excellence 2022

63. Answer: b

Explanation:

The correct answer is The Coca-Cola Company.

★ Key Points

- **Sprite** is an American-owned brand of clear, lemon, and lime-flavored soft drink **created by The Coca-Cola Company** .
- The Sprite brand name was **created by T. C. Bud Evans** , a Houston-based bottler who also distributed Coca-Cola products, circa 1955 for a line of drinks with flavors such as strawberry and orange; the **rights to the name were acquired** by The Coca-Cola Company **in 1960** .
- The lemon-lime drink known today as Sprite was **developed in West Germany** in **1959** as Fanta Klare Zitronen ('Fanta Clear Lemon' in English) and was introduced in the United States under the **Sprite name in 1961** as a competitor to 7 Up.
- In **July 2022** , The Coca-Cola Company announced that Sprite will **discontinue its green bottles** on August 1 and switch to clear plastic bottles.
 - The green plastic contains **green polyethylene terephthalate (PET)**, an additive that cannot be recycled into new bottles.

★ Additional Information

The Coca-Cola Company

Founded On	January 29, 1892
Headquarters	Atlanta, Georgia, U.S.
Chairman and CEO	James Quincey
Revenue	US\$37.27 billion (2019)

64. Answer: d

Explanation:

The correct answer is Rural Electrification Corporation Limited.

★ Key Points

- **Rural Electrification Corporation Limited (REC)** has been accorded the status of a ' **Maharatna** ' Central Public Sector Enterprise, thus giving REC **greater operational and financial autonomy** .

- An order to this effect was issued on 21st September by the **Department of Public Enterprises** , under the Ministry of Finance.
- Incorporated in 1969, **REC** is an **NBFC focusing on Power Sector Financing and Development** across India.
- Shri **Vivek Kumar Dewangan** ,**CMD** ,**REC** said that REC achieved this feat owing to its adaptability, resilience, and consistent performance even during the global covid-19 pandemic.
- REC has played a key role in the success of the **flagship schemes** of the Government of India such as **DDUGJY** and **SAUBHAGYA** and has contributed towards achieving village and household electrification in the country.
 - The **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)** is an Indian government scheme intending to provide an uninterrupted power supply to the rural parts of India.
 - **Saubhagya Scheme** or Pradhan Mantri Sahaj Bijli Har Ghar Yojana is an Indian government project to provide electricity to non-electrified rural households.

★ Additional Information

List of Maharatna Companies in India 2022

1. Bharat Heavy Electricals Limited
2. Bharat Petroleum Corporation Limited
3. Coal India Limited
4. GAIL (Gas Authority of India) Limited
5. Hindustan Petroleum Corporation Limited
6. Indian Oil Corporation Limited
7. NTPC (National Thermal Power Corporation) Limited
8. Oil & Natural Gas Corporation Limited
9. Power Grid Corporation of India Limited
10. Steel Authority of India Limited
11. Power Finance Corporation
12. Rural Electrification Corporation Limited

65. Answer: c

Explanation:

The correct answer is Tamil Nadu.

★ Key Points

- The **Tamil Nadu Assembly** passed a Bill moved by Chief Minister M.K. Stalin in October to **prohibit online gambling and to regulate online games** in the State.
- The Bill seeks to **replace an Ordinance** promulgated by Governor R.N. Ravi recently banning online gambling and regulating online gaming.
- According to the Statement of Objects and **Reasons of the Bill**, online gambling and online games are **addictive in nature and increase the threat to public order** manifold, while posing difficulties in terms of designing appropriate regulation.
- The Tamil Nadu government had constituted a **four-member panel** under **Justice (retd) K Chandru** to examine the adverse effects of online rummy and to enact fresh legislation on online games.

66. Answer: c

Explanation:

The correct answer is Zee Entertainment Enterprises Ltd.

★ Key Points

- The **Competition Commission of India (CCI)** on October 2, 2022, approved the merger of **Zee Entertainment Enterprises Ltd** with **Sony Pictures Networks India Pvt. Ltd .** and **Bangla Entertainment Pvt. Ltd**, both part of the **Sony Group Corp .**
- **53%** of the merged entity would be owned by **Sony India shareholders** and the rest by Zee's holders.
- The merged entity will remain a publicly listed entity in India with **Goenka as MD & CEO**, while NP Singh, MD & CEO of SPN, is likely to be on the board of the company.
- The combined entity will own **75 TV channels ,2 video streaming services** (ZEE5 and Sony LIV), **two film studios** (Zee Studios and Sony Pictures Films India), and a digital content studio (**Studio NXT**), making it the **largest entertainment network in India**, bigger than Star & Disney India.

- The merger will also have **over Rs 13,600 crore in revenues** and an employee count of over 4,000.
- On October 28th, Sony and Zee media groups voluntarily agreed to **sell their three Hindi Channels – Big Magic ,Zee Action , and Zee Classic** to address possible anti-competition concerns arising from the merger deal.

★ Additional Information

Competition Commission of India

Formation	14 October 2003
Headquarters	New Delhi
Current Chairman	Ashok Kumar Gupta
First Chairman	Dhanendra Kumar

67. Answer: d

Explanation:

The correct answer is B only.

★ Key Points

- **Social Stock Exchange SSE** is a novel concept in India and such a course is **meant to serve the private and non-profit sectors** by channeling greater capital to them.
- The idea of SSE was first floated by Finance Minister Nirmala Sitharaman in her Budget speech for the **financial year 2019-20** .
- The Listed NPO will have to **submit a statement of the utilization of funds** to SSE, as mandated under Sebi's rules **within 45 days** from the end of the quarter.
- Sebi has asked social enterprises raising funds using SSE to **disclose the Annual Impact Report (AIR) within 90 days** from the end of the financial year, capturing the qualitative and quantitative aspects of the social impact generated by the entity and where applicable, the impact that is generated by the project or solution for which funds have been raised on SSE.
- In addition, NPOs need to make disclosure of financial statements for the last three financial years, details of past social impact and risks that they see to its work, and how it proposes to mitigate these.

- The social enterprises will have to **engage in a social activity out of 16 broad activities** listed by the regulator.
 - The eligible activities include eradicating hunger, poverty, malnutrition, and inequality; promoting healthcare, supporting education, employability, and livelihoods; gender equality empowerment of women and LGBTQIA+ communities; and supporting incubators of social enterprise.
-

68. Answer: e

Explanation:

The correct answer is 2030.

★ Key Points

- Prime Minister, **Shri Narendra Modi launched the National Logistics Policy** in New Delhi on 17th September. India had taken yet another important step towards becoming a developed nation with the National Logistics Policy.
 - The policy aspires to **reduce the cost of logistics** in India to be comparable to global benchmarks by 2030, endeavor to be among the **top 25 countries by 2030** in the Logistics Performance Index ranking, and create a data-driven decision support mechanism for an efficient logistics ecosystem.
 - The implementation of the National Logistics Policy would bring down logistics costs, give a **boost to international trade**, help in making India 'atmanirbhar' or self-reliant, usher in prosperity in the nation, and present new opportunities to our startups.
 - The policy would be highly beneficial to the **farmers** of the country, helping them to **take their produce to the markets at a faster pace and reduce wastage and delay**. This would bring down prices in the economy – said Piyush Goyal, Union Minister of Commerce and Industry.
 - The Policy will be implemented through a **Comprehensive Logistics Action Plan (CLAP)**. The interventions proposed under the CLAP are divided into eight key action areas: (i) Integrated Digital Logistics Systems (ii) Standardization of physical assets and benchmarking service quality standards (iii) Logistics Human Resources Development and Capacity Building (iv) State Engagement (v) EXIM (Export-Import) Logistics (vi) Service Improvement framework (vii) Sectoral Plan for Efficient Logistics (viii) Facilitation of Development of Logistics Parks.
-

69. Answer: c

Explanation:

The correct answer is Rs. 5 lakh.

★ Key Points

- **Commercial paper**, also called CP, is a short-term debt instrument issued by companies to raise funds generally for a **time period** of up to **one year**.
 - They can be issued in **denominations of Rs 5 lakh** or **multiples thereof**.
- It is an **unsecured** money market instrument issued in the form of a promissory note and was introduced in India for the **first time** in **1990**.
- Companies that enjoy high ratings from rating agencies often use CPs to **diversify their sources of short-term borrowings**. This gives investors an additional instrument.
- CPs have a **minimum maturity** of **seven days** and a **maximum** of up to **one year** from the date of issue.
- Since such instruments are **not backed by collateral**, only firms with high ratings from a recognized credit rating agency can sell such commercial papers at a reasonable price.
 - CPs are usually **sold at a discount** to their face value, and carry higher interest rates than bonds.
-

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70. Answer: c

Explanation:

The correct answer is Mustard.

★ Key Points

- The **Genetic Engineering Appraisal Committee** (GEAC) which functions under the Union Environment Ministry, yet again cleared the proposal for the commercial cultivation of genetically modified (GM) mustard.
- Though the GEAC had **cleared** the proposal in **2017**, the **Ministry vetoed it** and suggested that the GEAC hold more studies on the GM crop.

- A GEAC meeting held on October 18 allowed the environmental release of **two varieties of genetically engineered mustard** so that it can be used for developing new parental lines and hybrids under the supervision of the Indian Council of Agriculture Research (ICAR).
- The **approval is for** a limited period of **four years** and is **renewable for two years** at a time based on the compliance report.
- Commercial use of **DMH-11** will be subject to the Seed Act and related rules and regulations.

★ Additional Information

Genetic Engineering Appraisal Committee (GEAC)

- The Genetic Engineering Appraisal Committee (GEAC) functions in the **Ministry of Environment, Forest and Climate Change (MoEF&CC)**.
- As per Rules, **1989**, it is responsible for the appraisal of activities **involving** large-scale use of hazardous microorganisms and recombinants in research and industrial production **from the environmental angle**.
- The committee is also responsible for the appraisal of proposals relating to the **release of genetically engineered (GE)** organisms and products into the environment including experimental field trials.

71. Answer: b

Explanation:

The correct answer is 10 sectors.

★ Key Points

Union Budget 2022-2023:

- Finance Minister Nirmala Sitharaman announced that the **Productivity Linked Incentive (PLI)** scheme in **14 sectors** for achieving the vision of **Atma Nirbhar Bharat** has received an excellent response, with the potential to create **60 lakh new jobs**, and an additional production of **Rs. 30 lakh crore** during next **5 years**.
- The PLI Scheme for electronics manufacturing, the Union Cabinet chaired by Prime Minister Narendra Modi, on **11 November 2020**, has introduced the Production-Linked Incentive (PLI) Scheme in 10 key sectors.

- In Union Budget 2022-23 Productivity Linked Incentive (PLI) sectors have **increased to 14 sectors**.
- The objective is to make domestic manufacturing globally competitive and to create global Champions in manufacturing.

★ Important Points

- In the Union Budget 2021-22, presented on 1st February 2021, the Union Finance Minister announced an outlay of **INR 1.97 Lakh Crores** for the **Production-Linked Incentive (PLI) Schemes for 13 key sectors**.
- This means that **minimum production in India as a result of PLI Schemes is expected to be over US\$ 500 billion in 5 years**.

72. Answer: d

Explanation:

The correct answer is 'a, b, and c'

★ Key Points

- As per the Reserve Bank of India (RBI), growth in Scheduled Commercial Banks (SCBs) deposits moderated to 10 percent year-on-year in March 2022, compared to an increase of 11.9 percent a year ago.
- During 2021-2022, current, savings and term deposits rose by 10.9 percent, 13.3 percent and 7.9 percent, respectively.
- However, the data showed that consistent with the monetary and liquidity conditions, interest rates on term deposits moderated further during fiscal 2021-22.
- The share of term deposits bearing over 6 percent interest rate came down to 14.4 percent in March 2022 (31 percent a year ago; 78.7 percent two years ago).
- The share of Current Account and Savings Account (CASA) deposits in total deposits has been increasing over the years and stood at 44.8 percent in March 2022 as compared with 41.7 percent three years ago.
- Large size deposits (i.e., Rs 1 crore and above) nearly accounted for 40 per cent share in total term deposits.
- According to the data, seven states -- Maharashtra, National Capital Territory (NCT) of Delhi, Uttar Pradesh, Karnataka, Tamil Nadu, West Bengal, and Gujarat -- together accounted for 63.3 percent of bank deposits in fiscal 2021-22.

73. Answer: d

Explanation:

The correct answer is Bimal Julka.

★ Key Points

- Bimal Julka succeeded Sudhir Bhargava as Chief Information Commissioner in March 2020 .
- He was selected by the high-powered selection committee headed by Narendra Modi.

★ In News

- **Yashvardhan Kumar Sinha** has been recently appointed as the Chief Information Commissioner (CIC). (as of JULY 2022)
- The post of CIC was held by Bimal Julka, Prior to the appointment of Yashvardhan Kumar Sinha.

★ Additional Information

- The first Chief Information Commissioner of India was Wajahat Habibullah .
- The first woman Chief Information Commissioner was Deepak Sandhu.
- The Chief Information Commissioner and an information commissioner holds office for **three** years or until they attain the age of 65 years .
- They are not eligible for re-appointment .
- The Central Information Commission has been constituted with effect from 12-10-2005 under the Right to Information Act, 2005.
- The jurisdiction of the Commission extends over all Central Public Authorities.

74. Answer: d

Explanation:

The correct answer is Punjab & Sind Bank.

★ Key Points

- Punjab & Sind Bank has entered into an agreement to buy a 2 percent stake in asset reconstruction company NARCL for Rs 55 crore.
- The equity investment would be done in tranches, with the first investment of Rs 28.18 crore expected to be completed by March 31, 2022.
- The financial investment is being done to ensure prompt resolution, including recovery of NPA (non-performing assets) accounts.

★ Additional Information

- Punjab & Sind Bank is an Indian nationalised bank.
- It is under the ownership of Ministry of Finance, Government of India with its head office located in New Delhi.
- Punjab & Sind Bank:
 - Headquarters: New Delhi, India
 - Founder: Vir Singh
 - Founded: 24 June 1908

75. Answer: c

Explanation:

The correct answer is 'a and c'.

★ Key Points

- The Union Minister for Finance & Corporate Affairs, Smt. Nirmala Sitharaman, tabled the Union Budget 2022–23.
- India's economic growth estimated at 9.2% to be the highest among all large economies. *Hence statement 1 is correct.*
- 60 lakh new jobs to be created under the productivity linked incentive scheme in 14 sectors.
- 1400 crore outlay for implementation of the Ken – Betwa link project. *Hence statement 2 is not correct.*
- Udyam, e-shram, NCS and ASEEM portals to be interlinked. *Hence statement 1 is correct.*
- Finance Minister of India Smt Nirmala Sitharaman. Budget is presented every year on the very first day of February.

76. Answer: e

Explanation:

The correct answer is Central, Currency.

★ Key Points

- Digital rupee (₹), also known as **Central Bank Digital Currency (CBDC)**, is a digital form of currency notes issued by the central bank, Reserve Bank of India.
- Union Finance Minister Nirmala Sitharaman had earlier announced that the RBI **will launch a CBDC in 2022-23**, which is the first official statement from the Union government on the much-anticipated digital currency's launch.
- **CBDC:**
 - Central bank digital currencies are digital tokens, similar to cryptocurrency, issued by a central bank.
 - They are pegged to the value of that country's fiat currency.
 - Many countries are developing CBDCs, and some have even implemented them.
 - Because so many countries are researching ways to transition to digital currencies, it's important to understand what they are and what they mean for society.

77. Answer: c

Explanation:

The correct answer is '**Skyroot Aerospace**'.

★ Key Points

- Indian rocket startup **Skyroot Aerospace** has raised \$51 million in a funding round led by Singapore sovereign investor GIC.
- The startup plans to use it to begin commercial satellite launches by the middle of next year.
- The funding follows the Indian government's push to get the country's private sector to complement its state-run space programme known for its affordable launches and missions.

- Skyroot is making India's first privately developed space launch vehicles – built with an all-carbon fibre structure that can launch up to 800 kg (1,760 pounds) of payloads to low-Earth orbit.
- It already has an agreement with the state-run Indian Space Research Organisation (ISRO) for sharing facilities and expertise.
- The company aims to have its first commercial launch in mid-2023.
- GIC's India managing director, Mayank Rawat, will join Skyroot's board after the funding.
- In the past few years, however, more than a dozen Indian firms developing satellites, rockets and related support systems have come up.

★ **Additional Information**

- Skyroot Aerospace Private Limited is an Indian private aerospace manufacturer and commercial launch service provider headquartered in Hyderabad.
- The company was founded by former engineers and scientists from ISRO in 2018.
- It aims to develop and launch its own series of small lift launch vehicles especially crafted for the small satellite market.

78. Answer: c

Explanation:

The correct answer is 'Federation of Indian Chambers of Commerce and Industry'.

★ **Key Points**

- **Federation of Indian Chambers of Commerce and Industry (FICCI)** and Indian Banks' Association (IBA) are jointly organising FIBAC – our annual banking conference on 2nd and 3rd November at Hotel Trident, Nariman Point, Mumbai.
- The proposed theme for FIBAC 2022 is 'Helping India step change its growth: How tech enabled banking can contribute to realization of \$5tn economy goal'.
- The Boston Consulting Group (BCG) is the Knowledge Partner for the conference.
- This annual flagship conference has become the marquee event in the calendar of members of entire banking and financial sector fraternity in the country and even draws participation from different parts of the world.
- Over the years, the conference has truly positioned itself as one of its kind in terms of knowledge dissemination and relationship building. This conference of industry stalwarts and global thought leaders will highlight some of the key emerging issues related to the banking industry.

- Key success strategies will be discussed and a roadmap for the future of the Indian banking industry will be laid out.

★ **Additional Information**

- While addressing FIBAC 2022, RBI Governor Shaktikanta Das said that the e-rupee launch is a landmark moment in the history of currency in the country as it will transform the way business is done and transactions are conducted.
- Mr. Das said that the RBI wants to solve all aspects of Central Bank Digital Currency (CBDC) before launch.
- He added that the central bank hopes to launch digitized Kisan Credit Card loans in a full-fledged manner by the calendar year 2023.

79. Answer: a

Explanation:

The correct answer is PM Narendra Modi.

★ **Key Points**

- PM Modi on 19th Oct 2022 launched the '**Mission Schools of Excellence**' project in Gandhinagar, Gujarat.
- The Mission has been conceived with a total outlay of Rs10,000 Crores & it is partially funded by the World Bank.
- It will help **strengthen the education infrastructure in Gujarat** by setting up new & smart classrooms, computer labs and overall upgradation of the infrastructure of schools.

★ **Additional Information**

- Gujarat is a state along the western coast of India.
- Its coastline of about 1,600 km is the longest in the country, most of which lies on the Kathiawar peninsula.
- Gujarat is the fifth-largest Indian state by area and the ninth-most populous state.
- Gujarat:
 - Capital: Gandhinagar
 - Governor: Acharya Devvrat
 - Chief Minister: Bhupendrabhai Patel
 - Population: 6.27 crores (2013)

80. Answer: e

Explanation:

The correct answer is SVC.

★ Key Points

- SVC Co-operative Bank Ltd and Small Industries Development Bank in India (SIDBI) have partnered for the first time to empower MSMEs.
- As per the agreement, SIDBI will extend refinance facility to SVC Bank to facilitate an improved flow of credit to MSMEs.
- The agreement was signed by Ashish Singhal, MD, SVC Bank and Sanjeev Gupta, GM, SIDBI in Mumbai on July 28 2022.
- This is the first such agreement executed with a UCB. SIDBI will sign more such Agreements with other UCBs and RRBs across various states.

★ Additional Information

- SIDBI is the Principal Financial Institution for Promotion, Financing and Development of the Micro, Small, and Medium Enterprise (MSME) sector as well as for coordination of functions of institutions engaged in similar activities.
- It has recently decided to extend refinance assistance to eligible scheduled Urban Co-operative Banks (UCBs) and Regional Rural Banks (RRBs).
- **SIDBI Headquarters-** Lucknow
CMD- Sivasubramanian Ramann

81. Answer: c

Explanation:

The correct answer is '\$3.3 billion'

★ Key Points

- India will issue at least 240 billion rupees (\$3.3 billion) in sovereign green bonds as the country marks a shift towards a low-carbon economy.

- The debut sale will take place in the first half of the fiscal year that starts on April 1, and a decision to sell more green debt will depend on the response to the initial issuance.
- The South Asian country's maiden foray into the green bond space comes as it plans to fund renewable energy projects that will help meet its goal of net-zero emissions by 2070.
- The government is expecting lower yields on green bonds, as otherwise, it sees little purpose in issuing them.
- The yield on the 10-year sovereign bond closed at 6.85% on March 14, 2022.
- The planned issuance comes amid a global boom in sustainable investments.
- India is the world's third-biggest emitter of greenhouse gases and plans to more than quadruple its renewable power generation capacity by 2030.
- Indian renewable energy companies raised debt worth 17.6 billion rupees in February, the most in nearly a year.

82. Answer: c

Explanation:

- The Reserve Bank of India allowed large modern currency chests to increase the service charges on cash deposited by non-chest bank branches from the existing rate of ₹5 per packet of 100 pieces to a higher rate subject to a maximum of ₹8 per packet.
- For this, only a currency chest (CC) that fulfils the minimum standards will be eligible to be classified as a large modern CC.

83. Answer: e

Explanation:

The correct answer is 'IndusInd Bank'

★ Key Points

- IndusInd Bank has been awarded the global 'Celent Model Bank' award for building a best-in-class Enterprise Payments Hub (EPH).
- It has won the award in the 'Payments System Transformation' category .
- The award acknowledges the Bank's outstanding journey in creating a cloud-based central payments hub that is capable of seamlessly processing high transaction loads

originating across all forms of payment instructions, and across all originating client touchpoints.

- The 'Celent Model Bank' is awarded for best practices of technology usage in different areas that are critical to success in banking.
- It is the main award that a financial institution can receive from Celent – a leading research and advisory firm focused on technology for financial institutions, globally.
- With this, IndusInd Bank has joined ranks with a few other banks globally, who have been conferred with this award.

★ Additional Information

- Under the Enterprise Payments Hub (EPH) initiative, IndusInd Bank has successfully designed a solution that will cut down on transaction costs, minimize system outages, and improve operation as well as customer experience, across all transaction points.
- It is developed on a micro services stack with each payment having its pod-based architecture. This allows payments to auto-scale independently depending on the transaction peak.
- It also features capabilities like warehousing of transactions including replay, centralised limit management and reconciliation controls.

84. Answer: d

Explanation:

The correct answer is Indian Overseas Bank (IOB).

★ Key Points

- **The Reserve Bank of India (RBI)** on 24 June 2022 imposed a monetary penalty of ₹57.50 lakh on Indian Overseas Bank (IOB) for non-compliance with certain directions.
- The penalty was related to **the directions issued by RBI on Frauds – Classification** and Reporting by commercial banks and select financial institutions.

★ Additional Information

- RBI on May 27, 2022, imposed a penalty of Rs 45 lakh on Japan-based MUFG Bank for non-compliance with the directions on 'time-bound implementation and strengthening of SWIFT-related operational controls'.

- The Competition Commission of India (CCI) has approved HSBC's acquisition of L&T Investment Management Ltd., the investment manager for L&T Mutual Fund.
- The \$425 million deal involves HSBC buying the entity from its parent L&T Finance Holdings Ltd. (LTFH).
- The acquisition is being executed through HSBC Asset Management (India) Pvt. Ltd.
 - RBI 25th Governor: Shaktikanta Das
 - RBI Headquarters: Mumbai
 - RBI Founded: 1 April 1935, Kolkata.

85. Answer: a

Explanation:

The correct answer is The Laxmi Co-operative Bank Ltd.

★ Key Points

- **The Reserve Bank of India (RBI)** on 22 Sept 2022 cancelled the licence of **The Laxmi Co-operative Bank Ltd** in Maharashtra citing inadequate capital & earning prospects.
- After this, depositors will be entitled to receive deposit insurance claim amount up to a monetary ceiling of Rs 5 lakh.
- On 10 Aug 2022, RBI had also cancelled the licence of Pune-based **Rupee Co-operative Bank Ltd.**

★ Additional Information

- RBI released the 'Quarterly Statistics on Deposits and Credit of SCBs for June 2022'.
- RBI imposed certain restrictions on Kerala-based Thodupuzha Urban Co-operative Bank for a period of six months due to its deteriorating financial condition.
- The Competition Commission of India (CCI) has approved HSBC's acquisition of L&T Investment Management Ltd., the investment manager for L&T Mutual Fund.
- The \$425 million deal involves HSBC buying the entity from its parent L&T Finance Holdings Ltd. (LTFH).
- RBI:
 - RBI 25th Governor: Shaktikanta Das
 - RBI Headquarters: Mumbai
 - RBI Founded: 1 April 1935, Kolkata

86. Answer: b

Explanation:

The correct answer is 'Technical'.

★ Key Points

- This passage explains what a geostationary orbit is.
- In doing so, it employs a highly technical language.
- Thus, this passage is **technical** in nature.

★ Additional Information

- Let's look at the meaning of the options given:
- **Pedestrian**: When a passage appears neither interesting nor complex, it has a pedestrian tone of writing. In other words, this kind of tone is used when the RC passage talks about commonplace things and ideas.
- **Technical** : A technical tone is recognized by the usage of words especially pertaining to a particular subject matter/ field of study that an ordinary person or someone not familiar with the field may have a problem understanding.
 - This type of tone is generally used to discuss the core ideas of particular fields of study. Such passages are generally accompanied by a lot of facts and figures.
 - **For example** : *Quantum computers are well suited to simulating similarly intricate systems like economic market forces, astrophysical dynamics, or genetic mutation patterns in organisms, to name only a few.*
- **Laudatory**: Laudatory tone is used to praise a person/thing and also to discuss a particular subject with justifications.
- **Populist**: A populist tone is used to discuss theories and characteristics exhibited by the general populace. The author of the passage utilizes a populist tone to explain the features and behavior of common people.
- **Euphemistic**: It implies a tone where you express your disliking or disagreement without being offensive or blunt.
 - In this kind of tone, there is a use of indirect and implicit statements.
 - **Example**: *'We're letting you go' is a euphemistic way of saying 'You're fired.'*

Thus, this passage can be described as technical.

87. Answer: a

Explanation:

The correct answer is **option (1)** i.e "The Cluster Development Programme is a cash cow for the economy and farmers."

★ Key Points

- It is given that:
 - "The CDP will also create cluster-specific brands, while helping the economy, to integrate them into national and global value chains, thereby providing higher remuneration to farmers."
 - "A lot of investment will also come in the horticulture sector through CDP."
 - From these sentences it is clear that the **CDP is beneficial and profitable for farmers and economy.**

Hence, the correct answer is "The Cluster Development Programme is a cash cow for the economy and farmers."

★ Additional Information

- **A cash cow:** An activity or business which provides continuous profit.
 - **Example:** the IPL is a cash cow for BCCI.

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88. Answer: b

Explanation:

The correct answer is **option(2)** i.e. "The ministry brought under the hammer such gifts in the past also."

★ Key Points

- It is given that:
 - *"the auction is scheduled from 17th September to 2nd October, 2022."*
 - *"In 2019 these items were auctioned for people by open bidding."*
 - Which means it is not the first time to organize an auction.

Hence, the correct answer is "The ministry brought under the hammer such gifts in the past also."

★ Additional Information

- **Bring under the hammer:** to sell something at an auction.
 - **example:** the paintings will be brought under the hammer.

89. Answer: b

Explanation:

The correct answer is **option (2)** i.e. "Indians should roll up sleeves and continue their endeavour."

★ Key Points

- It is given that:
 - In such a situation, **it is the responsibility of us** countrymen to do much better than **these hopes** and expectations.
 - Which means the citizens should continue their endeavour.

Hence, the correct answer is **Indians should roll up sleeves and continue their endeavour.**

★ Additional Information

- **Roll up sleeves:** to prepare for hard work.
 - **Example:** Indians should roll up sleeves and continue their endeavour.

90. Answer: c

Explanation:

he correct answer is **option (3)** i.e "the hippos are the bone of contention between the Colombian government and a court."

★ Key Points

- The statement says, "the Colombian government was sued over its plan to sterilize or kill the animals, a federal court ruled that the hippos can be recognized as people or "interested persons" with legal rights".
- It is clear **the Colombian government and the federal court have opposite views on the issue of hippos**.
- **Bone of contention** means "issue of disagreement."

★ Additional Information

- **Abide by:** follow a rule.
 - Example: all the players should abide by the rules of the game.
- **Hoping against hope:** hope for a thing which is unlikely to happen.
 - Example: I am hoping against hope that my friend will return my money.
- **Turn a deaf ear to something:** to ignore someone when he/she is complaining.
 - Example: the politician turned a deaf ear to the complaint.

91. Answer: b

Explanation:

The correct answer is **option 2** i.e. "surge in the shelter and used vehicle price created domino effect and caused upward pressure on CPI."

★ Key Points

- "The increase in the CPI was led by higher prices for shelter and used vehicles."
- From the sentence it becomes clear that the factors responsible for increase in CPI are higher prices for shelter and used vehicles.
- Domino effect is the situation in which one event (generally a bad event) causes the similar events to happen.
- Here, **surge** (sudden increase) in the shelter and used vehicle price caused the similar event (increased CPI) to happen.

Hence, the correct answer is "surge in the shelter and used vehicle price created domino effect and caused upward pressure on CPI."

92. Answer: e

Explanation:

The correct answer is **option 5** i.e. "None is true .."

★ Key Points

(A) " *rising prices of all the commodities intensify the inflation.*"

- In the passage it is mentioned that "**prices of some commodities like energy and meats are falling.**"
- Hence, according to the context of the passage this statement is not true.

B) " *The inflation is difficult to control because there is sudden acceleration in demands against the constant supply.*"

- In the passage it is mentioned that "*High inflation has proven more stubborn and widespread than the central bank predicted amid unprecedented demand for goods along with capacity constraints related to the supply of both labor and materials.*"
- Here, the demand has been increased but at the same time there are restrictions on supply.
- Hence, according to the context of the passage this statement is not true.

C) " *The dollar is impervious to the inflation.*"

- In the passage it is mentioned that "*Yields on 10-year Treasuries fluctuated while S&P 500 futures maintained gains and **the dollar extended its decline** on the day.*"
- It means the **dollar is declining.**
- Hence, according to the context of the passage this statement is not true.

D) " *The shelter costs make up about fifty percentage of the CPI.*"

- In the passage it is mentioned that "**Shelter costs** which are considered to be a more structural component of the CPI and **make up about a third** of the overall index"
- Hence, according to the context of the passage this statement is not true.

Hence, the correct answer is "**none is true**"

93. Answer: e

Explanation:

The correct answer is **option (5)** i.e. **only B**

★ Key Points

- **Tailwind:**
 - Make something more powerful or effective,
 - Help to increase.
- In the passage: "*Other **gauges of home prices and rents have surged last year**, likely presaging a sharp acceleration in the report's housing metrics this year and **offering an enduring tailwind to inflation.***"
 - Which means **surged gauges are increasing inflation.**
- Sentence (A): "*Inflation and deflation are tailwind with each other.*"
 - Here, the word tailwind doesn't make the sentence meaningful.
- Sentence (B) "*The new educational policy will definitely provide tailwind to the technical education.*"
 - Means, the new educational policy will make technical education more effective.
- Sentence (C): "*Scientists are worried about the tailwinds originating from the Sun.*"
 - Here, the word tailwind doesn't make the sentence meaningful.

Hence, the correct answer is **"Only B"**.

94. Answer: c

Explanation:

The correct answer is **option (3)** i.e **Invariable**.

★ Key Points

- **Rock-solid:**
 - Meaning:
 - firm and fix
 - can not be changed
 - In passage: "***Rock-solid inflation** has proven more stubborn and widespread than the central bank predicted.*"
 - Rock-solid inflation means the inflation is firm and unlikely to change.
- **Invariable:**
 - Meaning:
 - constant

- unchanging
- ◦ Example: "Fundamental rights are invariable provisions."

★ Additional Information

- **High**: excessive.
 - Example: Unemployment rate is record **high** this year.
- **Obnoxious**: extremely unpleasant.
 - Example: The vehicle was making an **obnoxious** noise.
- **Explicit**: direct and clear.
 - Example: The teacher drew an **explicit** diagram.
- **Delectable**: (food) tasty, extremely good to taste.
 - Example: As soon as she ate **delectable** cake her anger vanished into thin air.

95. Answer: d

Explanation:

The correct answer is **option (4)** i.e **as gasoline prices slid**.

★ Key Points

- "The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slid"
- According to the sentence drop in the prices of gasoline leads to decline in energy index.
- Grammatically the incorrect part of the sentence is "**as gasoline prices slid**"
- **Price slide**: drop in price.
- **V3 of slide is slid (not slided)**
- Hence, the correct sentence is: "The energy index declined 0.4% from November, the first monthly decline since April as gasoline prices slid"

96. Answer: c

Explanation:

The correct answer is **option (3)** i.e **centered** – BCA

★ Key Points

- In the sentence we have:
 - **Two nouns:** considerations and evolution.
 - **One modifier:** intensified.
- "I took note of the (A) of the automobile"
 - In this phrase (A) is preceded by article "the", which means it should be filled by a noun or an adjective.
 - This blank can not be filled with a modifier because it is not followed by any other word. (modifiers are used for modification of other words like nouns or verbs)
 - **Hence, (A) can be filled with either "considerations" or "evolution".**
- "under the pressure of (B) competition"
 - As this blank is followed by a noun (competition), we can use the modifier (intensified) here.
 - "under the pressure of **intensified** competition"
- "around certain (C) "
 - (C) must be filled with one of the nouns (considerations or evolution)
 - As there is no indefinite article here, "evolution" can not fill the blank.
 - Correct syntax: **"a certain evolution or certain evolutions."**
 - Hence, (C) will be replaced by "considerations" and (A) will be replaced by "evolution"
- "the value of a car had come to be _____ around certain "considerations."
 - The blank will be filled with "centered". (as no other option makes sense)
- **The correct syntax is:**
 - "I took note of the **evolution** of the automobile under the pressure of **intensified** competition and observed that the value of a car had come to be centered around certain **consideration**."

★ Additional Information

- **centered around:** deals mainly with.
- **come around:**
 1. Become conscious again
 2. Happen again
 3. Go and visit

★ Important Points

- **Modifiers:**
- **Definition:** "words used for modification of other words."

- **Example:**

1. "under the pressure of intensified competition."
 2. "under the pressure of healthy competition."
- here, "intensified" and "healthy" words modify "competition" hence they are modifiers.

97. Answer: e

Explanation:

The correct answer is **option (5)** i.e **assisting** – CBA

★ **Key Points**

- In the sentence we have:
 - **Two nouns:** customer and middleman.
 - **One modifier:** cheaper.
- "If you are a (A);"
 - As (A) is preceded an article any noun can replace it.
 - **Hence, grammatically this phrase is correct.**
- "the internet's promise of (B) prices and faster services"
 - As (B) is followed by a noun an appropriate modifier can fill it.
 - "cheaper" is a suitable modifier for "price"
 - **Hence, grammatically this phrase is correct.**
- "contact between the producer and middleman(C)."
- **between _____and_____.**
- **"and"** is a coordinating **conjunction** and it is use to **join grammatically equal elements.**
- **grammatically equal elements:**
 - Noun and noun.
 - Verb and verb.
 - Gerund and gerund, etc
- **Hence, grammatically this phrase is correct.**
- "faster services can end your role of _____ the contact between the producer and middleman"
- Here, the blank is preceded by **"of"** hence it should be filled with "verb+ing"
- Hence, **option 1 gets eliminated.**
- One can break contact or assist contact.

- Hence, **grammatically assisting and breaking both can fill the blank.**
- To make this sentence meaningful just read the following phrase:
 - "If you are a customer, the internet can end your role between the producer and middleman." (just to focus on main idea some words are eliminated)
 - This sentence makes no logic as a customer doesn't play any role between a producer and a middleman.
 - A middleman is a connecting link between customers and producer.
 - From the given option we can choose "assisting" for "connecting"
- Hence, the correct syntax is:
 - "If you are a **middleman**, the internet's promise of **cheaper** prices and faster services can end your role of assisting the contact between the producer and customer."

98. Answer: b

Explanation:

The correct answer is **option (2)** i.e. **undue** - BCA

★ Key Points

- In the sentence we have:
 - **Two nouns:** demands and distress.
 - **One modifier:** concerned.
- "India will step forward where global **distress (A)** for food"
 - The phrase, **distress for**, is **grammatically incorrect**.
 - If we use " **distress** " here then it will disturb the subject verb agreement.
 - "global **(A)** for food, grain and other materials **are** .. "
 - Here "**are**" is a **verb** and **(A)** is a **subject**.
 - "**concerned**" is a **modifier**, hence it can't be placed at the first position.
 - Hence, the correct phrase is: "India will step forward where global **demands** for food, grain and other materials are..."
- "where global demands for food, grain and other materials are **(B)**."
 - **(B)** will be filled with the modifier.
 - The **noun** (for which the modifier has been used) is "**demands**"
 - "**concerned demand**" (modifier + noun)
 - Hence, the correct phrase is: "where global demands for food, grain and other materials are **concerned**."

- "will not take an advantage of countries in (C)." (some phrases are omitted to focus on word swap)
 - Here, both the nouns can be fit grammatically.
 - But according to the context "distress" makes the sentence meaningful.
 - Hence, the correct phrase is "will not take an advantage of countries in **distress** "
- "will not take an _____ advantage of countries in distress."
 - as the blank preceded by "an", it should be filled with one of the following types of **nouns** :
 1. noun beginning with a vowel;
 2. noun beginning with a mute "h";
 3. noun beginning with a consonant with a vowel sound.
 - **Hence, option 1 gets eliminated.**
 - "**any**" itself is a **determiner** hence, it can't be preceded by an article.
 - **Hence, option 3 gets eliminated.**
 - Now., the only option remains with " BCA" is option 3.
 - As it starts with a vowel sound word, it will fill the blank grammatically.
 - "undue advantage" makes the phrase meaningful.
 - Hence the correct syntax is " *will not take an **undue** advantage of countries in distress.*"
- **The correct syntax is:**
 - "*India will step forward where global **demands** for food, grain and other materials are **concerned** and it will do it in a manner that is helpful to the global economy which will not take an **undue** advantage of countries in **distress** .*"

★ Additional Information

Undue: inappropriate

99. Answer: d

Explanation:

The correct answer is **option (4)** i.e **rejuvenation** – CBA

★ Key Points

- **In the sentence we have:**
 - **Two verbs:** attempted and introduced.
 - **One modifier:** comprehensive.

- "In 2014 India **(A)** one of the most"
 - Grammatically both the verbs can be fit here.
 - Both the verbs make the phrase meaningful.
 - **Hence, we can't decide anything.**
- "one of the most **comprehensive** and ambitious programs."
- "**Comprehensive**" is a **modifier** used for programs.
- It makes the phrase grammatically correct and meaningful.
- "ever **(C)** anywhere in the world."
- Grammatically both the verbs can be fit here.
- Both the verbs make the phrase meaningful.
- **Hence, we can't decide anything.**
- "ambitious programs of urban _____ ever **introduced/attempted.**"
 - Management, rejuvenation and construction all this words can fill the blank.
 - In the phrase "**urban**" is used as a **modifier**, hence the blank must be filled with a noun.
 - "**managing**" is either a **verb or a modifier.**
 - **Hence, option 5 gets eliminated.**
- As option 5 gets eliminated and no other option, except 4, has **(B)** on the second position, the correct answer is option 4.
- The correct syntax is :
 - "In 2014 India **introduced** one of the most **comprehensive** and ambitious programs of urban rejuvenation ever **attempted** anywhere in the world."

★ Additional Information

- **Comprehensive:** including everything, exhaustive.
- **Rejuvenation:** renewal or revitalization.

100. Answer: c

Explanation:

The correct answer is **option (3)** i.e. II-FDGE, I-BAC

★ Key Points

Sentence – I

- I) to work smoothly with professionals such as lawyers and accountant (A)/corporations can use the internet (B)/ who remain outside the company walls (C)
 - Both (A) and (B) can be the first phrase of the sentence.
 - "*who remain outside the company walls (C)*"
 - "who" is a **relative pronoun** used for "professionals".
 - Hence, the correct arrangement will be (A) → (C).
 - Now, **phrase (B) can not be the last phrase.** [(A) → (C) → (B) doesn't make any sense]
 - **Hence, the correct rearrangement of the phrases is (B) → (A) → (C).**

Sentence - II

- II) impact of terrorism is particularly (D)/ local economy (E)/ the long term (F)/ hard on the poor and on the (G).
 - "*impact of terrorism is particularly*"
 - This phrase can't be the first phase because "impact" is a singular noun so it must be preceded by an article. (an or the)
 - Since, this phrase doesn't contain any article, it can't be the first phrase.
 - "*local economy*"
 - In this phrase:
 - "economy" is a **noun**.
 - "local" is a **modifier** used for economy.
 - The **noun** is in **singular form** hence **there should be an article** for economy.
 - If we consider **this phrase as the first**, then it will make the sentence **grammatically incorrect**.
 - **This phrase can't be the first phrase.**
 - "the long term"
 - In this phrase:
 - "the" is an **article**.
 - "long term" is a **modifier**.
 - **This phrase can come at the first position.**
 - "hard on the poor and on the"
 - In this phrase:
 - "hard" is a **modifier**.
 - "the poor" is a **noun**.
 - "and" is **coordinating conjunction**.
 - "hard" is not modifier of the poor, and with "poor" the clause is complete.
 - Hence, **this phrase can not be the first one.**
 - **As it ends with an article without followed by a noun it can't be the last one.**

- (F) can be followed by (D) or (E).
 - (E) can't be the second phrase because none of the remaining phrases can follow it.
 - Hence, **(D) will be the second phrase.**
- "impact of terrorism is particularly" this phrase must be followed by a modifier.
 - "hard on the poor and on the" will be the third phrase.
- **Hence, the correct arrangement is (F) → (D) → (G) → (E)**
- **The correct syntax is:**
 - I) Corporations can use the internet to work smoothly with professionals such as lawyers and accountant who remain outside the company walls.
 - II) The long term impact of terrorism is particularly hard on the poor and on the local economy.

Hence, the correct answer is **II-FDGE, I-BAC.**

101. Answer: d

Explanation:

The correct answer is **option (4)** i.e I-DBAC, II-FGE

★ Key Points

Sentence – I

- I) it is a living example of journey from(A)/ is not a story only of a legal text and legal interpretation, (B) a turbulent past to a promising future (C) the story of Indian Constitution (D)
 - (A) and (C) make a pair [(A)→(C)]
 - (D) is a noun clause which forms pair with (B) [(D) →(B)]
 - (C) and (D) can't make a pair hence the **correct arrangement is D → B→ A→ C.**

Sentence – II

- II) in primitive society was the barter system (G)/ where direct exchange of goods took place ((E) the initial form of trade (F).
 - (G) can't be the first phrase of the sentence because **"was"** (a verb) **must be preceded by a subject** . ("was" is not used for "primitive society".)
 - In phrase (E), **"where" is used as a relative pronoun for "primitive society".**
 - Hence, the pair will be [(G) →(E)]

- As (G) can't be the first phrase, the correct arrangement is $(F) \rightarrow (G) \rightarrow (E)$
- The syntax is:
 - I) The story of Indian Constitution is not a story only of a legal text and legal interpretation, it is a living example of journey from a turbulent past to a promising future.
 - II) The initial form of trade in primitive society was the barter system where direct exchange of goods took place.

Hence, the correct answer is **I-DBAC, II-FGE**.

102. Answer: d

Explanation:

The correct answer is **option (4)** i.e **II-FDGE, I-BAC**

★ Key Points

Sentence - I

- I) the 75 years is beckoned to (A)/ what we have achieved in (B)/ the direction in which the country is moving(C).
 - Phrase (A) forms pair with both (B) and (C). $[(A) \Leftrightarrow (B) \text{ or } (A) \rightarrow (C)]$
 - Phrases (B) and (C) can't form a pair.
 - Hence, the correct arrangement of the phrases is $(B) \rightarrow (A) \rightarrow (C)$

Sentence - II

- II) agreement between Government of India and Government of France on the purchase of (D)/ shall be governed by the security agreement (E)/ as per the article 10 of the intergovernmental (F)/ Rafale aircraft, the protection of classified information(G)
 - Phrase (D) ends with **"on the purchase of"** which must be followed by a noun. Hence, phrases (D) and (G) forms a pair $[(D) \rightarrow (G)]$
 - Phrase (E) can't be the first phrase, but it can follow (G) $[(D) \rightarrow (G) \rightarrow (E)]$
 - Phrase (F) ends with **"intergovernmental"** which is a **modifier**, hence,
 - This phrase can't be the last one, and
 - It must be followed by appropriate word (noun /verb).
 - **"intergovernmental"** is an appropriate modifier for **"agreement"** (noun).
 - Hence, the correct rearrangement of the phrases is **F → D → G → E**

- The correct syntax is:

- I) What we have achieved in the 75 years is beckoned to the direction in which the country is moving.
- II) As per the article 10 of the intergovernmental agreement between Government of India and Government of France on the purchase of Rafale aircraft, the protection of classified information shall be governed by the security agreement.

Hence, the correct answer is **II-FDGE, I-BAC**

103. Answer: b

Explanation:

The correct answer is **option (2)** i.e. I-CABD, II-FEG

★ Key Points

Sentence - I

- I) challenges of post pandemic economic recovery(A)/ rising costs and the shrinking availability(B)/ the world is already struggling with(C)/ of fuel, of food and of fertilizers(D).
 - Phrase (B) ends with "**availability**" and phrase (D) starts with "**of food**" makes them pair. [(B)→(D)]
 - Phrase (C) ends with "**with**", hence it can be followed by either (A) or (B).
 - (C)→(B)→(D) in this arrangement **no place is available for (A)**
 - Hence, the only possible arrangement is (C) → (A) → (B) → (D)

Sentence - II

- II) economies the world over are contracting and their(E)/ things are big different this time(F)/ economic forecasts are shrinking(G)
 - Phrase (E) ends with "**their**" (of economics) and phrase (G) starts with "**economic forecasts**". Hence, they form a pair [(E)→(G)]
 - Hence, the final arrangement is (F) → (E) → (G)

The correct syntax is:

- I) the world is already struggling with challenges of post pandemic economic recovery, rising costs and the shrinking availability of fuel, of food and of fertilizers.
- II) things are big different this time economies the world over are contracting and their economic forecasts are shrinking.

Hence, the correct answer is **I-CABD, II-FEG**.

104. Answer: d

Explanation:

The correct answer is **option (4)** i.e **participation, C-D, B-F**

★ Key Points

- The correct syntax is:
 - "The participation of women among the highly paid and valued jobs is still very small. On an average an Indian woman works one hour more than an average man everyday. Yet much of her work is not paid and therefore often not valued."
 - "In many parts of India parents prefer to have sons and find ways to have girl child aborted before she is born. Such sex-selective abortion led to a decline in child sex ratio in the country to merely 919."

Hence, the correct answer is **participation, C-D, B-F**.

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105. Answer: b

Explanation:

The correct answer is **option (2)** i.e **alongside, A-F, C-E**

★ Key Points

- The correct syntax is:
 - "Germany, a powerful empire in the early years of the twentieth century, fought the first world war alongside the Austrian empire and against the allies. All joined the war enthusiastically hoping to gain from a quick victory. Little did they realize that the war would stretch on, eventually draining Europe all its resources."

- *"In the nineteenth century, when it become important to control territories and not just people, the Dutch enacted Forest law in Java, restricting villagers' access to forests. Now wood could only be cut for specified purposes and only for specific forests under close supervision."*

Hence, the correct answer is **alongside, A-F, C-E**

106. Answer: d

Explanation:

The correct answer is **option (4)** i.e. **tide over, C-D, A-E**

★ Key Points

- **The correct syntax is:**
 - "The life history of the poor pastoralists who depended only on their livestock was different. Most often, they did not have the resources to **tide over** bad times. In times of war and famine, they lost nearly everything."
 - "Knowledge management can be used to make response to customers faster. Yamanouchi Pharmaceuticals of Japan and Microsoft have made web-based information system an important part of improving quality and speed of answer to customers' technical questions."

Hence, the correct answer is **tide over, C-D, A-E**

★ Additional Information

- **tide over:** help or assistant in difficult time or **manage difficult situation.**
 - **example:** tide over bad time. (manage bad time)

107. Answer: b

Explanation:

The correct answer is **option (2)** i.e. **restructure, A-D, C-E**

★ Key Points

- The correct syntax is:
 - "Advertising today costs companies a lot of money. There are some companies – cold drinks, for example, who want everyone to see their advertising but most companies want to get their advertising to one group of people or another. Toy companies want children or the parents of young children to see their advertising."
 - "In a new milestone, there has been a significant decline in the maternity mortality ratio (MMR) in the country, congratulating the country on this achievement, the health minister praised the remarkable progress in effectively lowering the MMR."
 - "The first challenge addressed by the new executive committee was to restructure the administrative organization of GM. The company had historically been a decentralized collection of standalone businesses units, brought under the GM umbrella by William Durant.

Hence, the correct answer is **restructure, A-D, C-E**.

108. Answer: d

Explanation:

The correct answer is **option 4 i.e. ii and vi only**.

★ Key Points

- Meanings of all the given words:
 - i) **Discomfiture** : An awkward or uncomfortable feeling.
 - ii) **Anticipated**: To guess that something is going to happen in the future.
 - iii) **Deserved**: If someone deserves something that means the person is worthy of that thing.
 - iv) **Soothed**: Make comfortable or calmer.
 - v) **Impaled**: Push a sharp pointed object through something.
 - vi) **Expected**: To believe or hope that something will happen.
 - vii) **Entangled**: Involved or caught in difficult situation.
- The blank must be filled with an option which indicates an action done by "experts".
- From the given words Anticipated and Expected can fill the blank logically.

Hence, the correct answer is **option 4 i.e. ii and vi only**.

109. Answer: c

Explanation:

The correct answer is **option 3** i.e. **iii only**.

★ Key Points

- Meanings of all the given words:
 - i) **Plan**: An idea of or preparation for something.
 - ii) **Summit**: (in the context of the passage) An important meeting.
 - iv) **Interest**: concern or desire.
 - v) **Premises**: area of a building.
 - vi) **Efforts**: Endeavours.
 - vii) **manifestation**: making something noticeable.
- In this question **we are required to not only fill the blank but also complete an idiom**.
- In the passage it is mentioned that the US is organizing a summit on democracy and China do not want to adopt democracy. *It means there is **conflict of interest** of the two countries and there is a possibility that **one country ruin efforts of another country**.*
- **"China trying to put a spoke in US'"**.
 - Here, the idiom is **"put a spoke in someone's wheel"**.
 - **Put a spoke in someone's wheel**: to disrupt someone, try to destroy someone's plan.
- So, the correct word which can fill the black is **"Wheel"**.

Hence, the correct answer is option 3 i.e. iii only.

110. Answer: e

Explanation:

The correct option is **option 5** i.e. **iv and vi only**.

★ Key Points

- Meaning of all the given words:
 - i) **Scourge**: severe punishment.
 - ii) **Pretentious**: trying to impress other with false claims.

- iii) **Fundamental**: Basic and important.
- iv) **Greek**: Name of a country.
 - **Greek to someone: impossible to understand**
- v) **Indigenous**: Any living thing which is native to a particular area.
- vi) **Incomprehensible**: Impossible to understand.
- vii) **Agreeable**: Acceptable.
- "the actual meaning of democracy seems to be _____ to the Chinese leaders".
- According to the paragraph the leaders **don't understand the meaning of democracy**.
- "Something greek to someone" means the person is **unable to understand meaning of the thing**.
- **Incomprehensible**: impossible to understand.
- As the Chinese leader don't understand meaning of democracy, option iv and vi can fill the blank logically.

Hence, the correct answer is (iv) and (vi) only.

111. Answer: b

Explanation:

The correct answer is option (2) i.e (vii) only.

★ Key Points

- **Meaning of the given words/phrases:**
 - i) **Block it**: obstruct something.
 - ii) **Balance it**: stabilize something.
 - iii) **Persuade**: motivate or compel someone to do or believe something.
 - iv) **Harp on the same string**: repeatedly say the same thing.
 - v) **Outlaw**: ban or disallow something.
 - vi) **Compensate**: to pay somebody for their loss.
 - vii) **Jump on the bandwagon**: join or support others in doing a popular thing.
- "democracy is the most prevalent form of government in the world today and China wants to (4) but superficially."
 - As **democracy is prevalent** China too want to display itself as a democratic nation
 - Hence, **Jump on the bandwagon** (join or support others in doing a popular thing) can fill the blank logically.

Hence, the correct answer is (vii) only.

112. Answer: d

Explanation:

The correct answer is **option (4)** i.e. F-(i) and G-(iii)

★ Key Points

- Meaning of the words given in column-II (in the context of the respective sentences):
 - (i) **Standstill**: stop completely.
 - (ii) **Emerging**: developing or growing.
- "The lockdowns and social distancing norms brought the already slowing global economy to a **standstill**."
 - Which means the already slowing **economy stopped completely**.
 - Hence, the word "standstill" can fill the blank appropriately.
- "India was the only country among emerging markets to receive equity FII inflows in 2020."
 - Which means India is the only **developing market** which received equity FII inflows in 2020.
 - Hence, the word "emerging" can fill the blank appropriately.

★ Additional Information

- "India _____ saving lives and livelihoods by its willingness to take short-term pain for long-term gain."
 - Here "focused in" can't fill the blank appropriately.
- The correct syntax is:
 - "India **focused on** saving lives and livelihoods by its willingness to take short-term pain for long-term gain."
 - **Focus on**: give attention to or concentrate on.

113. Answer: a

Explanation:

The correct answer is **option (1)** i.e. E-(ii), F-(i) and G-(iii).

★ Key Points

- Meaning of the words given in column-II (in the context of the respective sentences):
 - (i) **Indicator**: signal or something which gives an idea about something else.
 - (ii) **Weathered**: [V3 of weather] to deal successfully with a problem or manage something without being hurt.
 - (iii) **Achieve**: to get something.
- "The economic shock of the pandemic has been **weathered** well by the commercial banking system."
- "Macroeconomic stability **indicators** suggest that the Indian Economy is well placed to take on the challenges of 2022-23."
- "44 Indian start-ups have **achieved** unicorn status in 2021 taking overall tally of unicorns to 83."

114. Answer: d

Explanation:

The correct answer is **option (4)** i.e E-(iii) only.

★ Key Points

- Meaning of the words given in column-II (in the context of the respective sentences):
 - (i) **Benefits**: get advantage.
 - (ii) **Battle**: try very hard to manage extremely difficult situation.
 - (iii) **Buried**: if someone feels buried means **one is feeling helpless and can't do what one wants to do.**
- "Doctors understand the need to control costs but **feel buried in** rules and layers of management."
 - Which means the doctors too understand that the costs are very high but **they can't do anything and hence feeling helpless i.e feel buried.**

★ Important Points

- "Customers are the main people who _____ from the increased efficiency of information technology."

- Here the noun "Customers" is in **plural form** hence use of "benefits" (**verb + s**) will **make it grammatically incorrect**.
- The correct syntax is: "Customers are the main people who benefit from the increased efficiency of information technology."
- "For the past few days, Assam is also _____ great challenges and difficulties in the form of floods."
 - "For the past few days" indicates that something **started in the past and is still continue**, such conditions are denoted by verb + ing.
 - The correct syntax is: "For the past few days, Assam is also battling great challenges and difficulties in the form of floods."

115. Answer: c

Explanation:

The correct answer is **option (3)** i.e. E-(ii) and F- (iii)

★ Key Points

- Meaning of the words given in column-II (in the context of the respective sentences):
 - (i) **Engineering**: to devise or arrange something.
 - (ii) **Custodians**: caretaker and protector.
 - (iii) **Abolished**: to end a law or a system officially.
- (E) "Our seas and coastal borders are great **custodians** of our economic self-reliance and also provide impetus to it."
- (F) "You will be happy to know that our government has **abolished** the compliances, which were hindering the ease of doing business."

★ Important Points

- (G) "every sector related to growth engine of our country is **running/working** at full capacity today."
 - Though the word engineering (verb + ing) is grammatically correct, it doesn't make the sentence meaningful.

116. Answer: c

Explanation:

The correct answer is **option (3)** i.e. " **think outside the box.**"

★ Key Points

- **Think outside the box:**
 - Meaning: tackle a problem with an innovative and extraordinary approach.
 - Example: *"her modus operandi is distinct because she always thinks out side the box."*
- **School closures have forced many schools to "(_____)" and come up with innovative and pragmatic solutions** in order to deliver teaching and ensure learning can happen remotely.
 - According to the sentence the schools are required to think innovative and adopt an extraordinary approach.
 - **Hence, the phrase, "think outside the box" can fill the blank appropriately.**
- School closures have forced many schools to "think outside the box" and come up with innovative and pragmatic solutions in order to deliver teaching and ensure learning can happen remotely.

★ Additional Information

- **Meaning of all the phrases given in the options:**
 - 1. **Come to a halt:**
 - Meaning: stop working.
 - Example: due to the strike the manufacturing came to a halt.
 - 2. **Every cloud has silver line:**
 - Meaning: every bad or unpleasant situation has some advantages or positive side.
 - Example: APJ Abdul Kalam sir wanted to become an air force pilot but he failed. After few years he became a rocket scientist, indeed, every cloud has a silver lining.
 - 4. **Dot the i's and cross the t's:**
 - Meaning: to pay great attention to every details.
 - Example: we have every details of the task, now it is time to dot the i's and cross the t's.
 - 5. **Gain ground:**
 - Meaning: to make progress and become more successful.
 - Example: when he joined the company he knew nothing about marketing but gradually he is gaining ground.

117. Answer: e

Explanation:

The correct answer is **option (5)** i.e. "this period of crisis can either strain or strengthen the relationship between parents and school staff and therefore it is necessary for both of them to communicate and cooperate with each other for a healthy educational system."

★ Key Points

- The preceding sentence states that, *"The relationship between schools, parents and the larger school community is vital to provide contextualised and pertinent quality education."*
- The **main focus** of the author is on **"education"**.
- The author knows that the period of crisis can negatively affect the education system.
- If all the stakeholders come together and coordinate with each other then the difficult situation will be tackled successfully.
- And for this coordination communication and cooperation between parents and school staff is necessary

★ Additional Information

- **Fluid interaction:** smooth, easy and hindrance-free communication.

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118. Answer: c

Explanation:

The correct answer is **option (3)** i.e. B, D and E only.

★ Key Points

- (B) Capacity building.
 - *"school capacities that can prove to be valuable assets for responding to crises and uncertain times"*
 - which means during this difficult time capacity building is essential to maintain quality of education.
- (D) Digital device:

- "Although the **absence of in-person lessons** can be somewhat **compensated by the use of online platforms and other technology-rich activities**, access to the necessary digital devices is not equally distributed across the population. In particular, **students** from socio-economically disadvantaged backgrounds **who lack the means to access to these devices** may be **severely affected by the COVID-19 crisis**, increasing learning inequalities as a result."
- Hence, we can say that digital devices are required for quality education.
- (E) **Suitable environment**:
 - "The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis."
 - Hence, we can say that suitable environment is required for quality education.

Hence, the correct answer is **Capacity building, Digital device and Suitable environment** are the requirements for quality education.

119. Answer: b

Explanation:

The correct answer is **option (2)** i.e. "only B".

★ Key Points

(B) the chaotic situation opened up new vistas for teachers:

- It is given that:
 - "School closures have forced **many schools** to **come up with innovative and pragmatic solutions** in order to deliver teaching and ensure learning can happen remotely."
 - Hence, **sentence B is correct**.

★ Important Points

- **New vistas**: New possibilities

★ Additional Information

- All the educational institutions across the globe are facing the same challenges.

- It is given that *"The capacity of schools to innovate, adapt and support staff varies from country to country and school to school."*
- Different schools have different capacities, hence it is obvious that they are facing different challenges.
- Hence, **this statement is false.**
- **Education through online platform is equally beneficial for all the students.**
 - It is given that *"Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access to these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result."*
 - Hence, **this statement is false.**
- **Education of those who have access to digital devices remained unaffected.**
 - It is given that *"The conditions for creating an adequate climate for home schooling not only rely on access to technology, but also on whether an appropriate physical space for learning exists at home. Much like access to computers, access to a quiet place to study may also have deteriorated during the crisis due to similar needs by parents for teleworking, and siblings for home schooling."*
 - Which means students who have digital devices but lack an appropriate space for study get affected due to the crisis.
 - Hence, **this statement is false.**

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120. Answer: d

Explanation:

The correct answer is **option (4)** i.e **Come in handy**.

★ Key Points

- Phrase given in bold: **"proved to be very helpful"**.
- **Come in handy**: if something come in handy which means the thing **turns to be very useful when we need it the most** .
- Hence, **"Come in handy"** can replace the phrase given in bold.

★ Additional Information

- **Weal and woe:**
 - Meaning: happiness and sadness, good or bad.
 - Example: "he accepted weal and woe of life with the same moderation."
- **Cloven hoof:**
 - Meaning: evil or bad intention.
 - Example: "India is aware about cloven hoof of the Pakistan army."
- **Yeoman's service:**
 - Meaning: great, hard and valuable work with good intention.
 - Example: "Singh did a Yeoman's service by providing free food to the orphan."
- **Pass the buck:**
 - Meaning: shift your responsibility to someone else.
 - Example: "It is your responsibility, don't try to pass the buck."

121. Answer: b

Explanation:

Given data:

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

The profit made on article D is Rs. 200,

So,

$$\Rightarrow XY + 100 - Y^2 = 200$$

$$\Rightarrow XY - Y^2 = 100$$

$$\Rightarrow X = (100 + Y^2)/Y \dots\dots\dots (1)$$

The discount offered on article C is 20%,

So,

$$\Rightarrow (100 - 20)/100 \times (Y^3/8) = Y^2 + XY - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + XY - 5Y \dots\dots\dots (2)$$

Putting the value of X from equation (1) into equation (2), we get

$$\Rightarrow Y^3/10 = Y^2 + Y \times ((100 + Y^2)/Y) - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + 100 + Y^2 - 5Y$$

$$\Rightarrow Y^3 = 20Y^2 + 1000 - 50Y$$

$$\Rightarrow Y^3 - 20Y^2 - 1000 + 50Y = 0$$

$$\Rightarrow (Y - 20) \times (Y^2 + 50) = 0$$

We get imaginary roots for $(Y^2 + 50) = 0$,

So,

$$\Rightarrow Y - 20 = 0$$

$$\Rightarrow Y = 20.$$

Putting value of Y in equation (1),

$$\Rightarrow X = (100 + (20)^2)/20 = 500/20 = 25$$

So,

$$X = 25.$$

Putting the values of X and Y in the table above.

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	500	400	320
B	1200	1100	800
C	1000	800	500
D	800	600	400

The discount given on article C is $(1000 - 800) = \text{Rs. } 200$.

The discount given on article A is $(500 - 400) = \text{Rs. } 100$.

So the difference between the discounts is $(200 - 100) = \text{Rs. } 100$.

From the given options $XY/5 = 100$

Hence, the difference between the discounts given on articles A and C is $\text{Rs. } XY/5$.

122. Answer: d

Explanation:

Given data:

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

The profit made on article D is $\text{Rs. } 200$,

So,

$$\Rightarrow XY + 100 - Y^2 = 200$$

$$\Rightarrow XY - Y^2 = 100$$

$$\Rightarrow X = (100 + Y^2)/Y \dots\dots\dots (1)$$

The discount offered on article C is 20% ,

So,

$$\Rightarrow (100 - 20)/100 \times (Y^3/8) = Y^2 + XY - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + XY - 5Y \dots\dots\dots (2)$$

Putting the value of X from equation (1) into equation (2), we get

$$\Rightarrow Y^3/10 = Y^2 + Y \times ((100 + Y^2)/Y) - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + 100 + Y^2 - 5Y$$

$$\Rightarrow Y^3 = 20Y^2 + 1000 - 50Y$$

$$\Rightarrow Y^3 - 20Y^2 - 1000 + 50Y = 0$$

$$\Rightarrow (Y - 20) \times (Y^2 + 50) = 0$$

We get imaginary roots for $(Y^2 + 50) = 0$,

So,

$$\Rightarrow Y - 20 = 0$$

$$\Rightarrow Y = 20.$$

Putting value of Y in equation (1),

$$\Rightarrow X = (100 + (20)^2)/20 = 500/20 = 25$$

So,

$$X = 25.$$

Putting the values of X and Y in the table above.

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	500	400	320
B	1200	1100	800
C	1000	800	500
D	800	600	400

Total cost price of articles B and D is $(800 + 400) = \text{Rs. } 1200$.

Total selling price of articles B and D is $(1100 + 600) = \text{Rs. } 1700$.

So the profit percentage is $((1700 - 1200)/1200) \times 100 = 125/3\%$.

From the given option $(X^2 - Y^2 - 5Y)/3\% = (625 - 400 - 100)/3 = 125/3\%$

Hence, the percentage profit made on the sale of articles B and D together is $(X^2 - Y^2 - 5Y)/3\%$.

123. Answer: c

Explanation:

Given data:

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

The profit made on article D is Rs. 200,

So,

$$\Rightarrow XY + 100 - Y^2 = 200$$

$$\Rightarrow XY - Y^2 = 100$$

$$\Rightarrow X = (100 + Y^2)/Y \dots\dots\dots (1)$$

The discount offered on article C is 20%,

So,

$$\Rightarrow (100 - 20)/100 \times (Y^3/8) = Y^2 + XY - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + XY - 5Y \dots\dots\dots (2)$$

Putting the value of X from equation (1) into equation (2), we get

$$\Rightarrow Y^3/10 = Y^2 + Y \times ((100 + Y^2)/Y) - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + 100 + Y^2 - 5Y$$

$$\Rightarrow Y^3 = 20Y^2 + 1000 - 50Y$$

$$\Rightarrow Y^3 - 20Y^2 - 1000 + 50Y = 0$$

$$\Rightarrow (Y - 20) \times (Y^2 + 50) = 0$$

We get imaginary roots for $(Y^2 + 50) = 0$,

So,

$$\Rightarrow Y - 20 = 0$$

$$\Rightarrow Y = 20.$$

Putting value of Y in equation (1),

$$\Rightarrow X = (100 + (20)^2)/20 = 500/20 = 25$$

So,

$$X = 25.$$

Putting the values of X and Y in the table above.

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	500	400	320
B	1200	1100	800
C	1000	800	500
D	800	600	400

Sum of the selling prices of all four articles is $(400 + 1100 + 800 + 600) = \text{Rs. } 2900$.

Sum of the cost prices of all four articles is $(320 + 800 + 500 + 400) = \text{Rs. } 2020$.

So the total profit earned is Rs. 880.

The average of the total profits is $880/4 = \text{Rs. } 220$.

From the given options $(4X + 5Y + 20) = (100 + 100 + 20) = \text{Rs. } 220$.

Hence the average total profits obtained after the sale of all four articles is Rs. $4X + 5Y + 20$.

124. Answer: b

Explanation:

Given data:

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	$X^2 - Y^2 + XY - 225$	Y^2	$4X + 5Y + 120$
B	$X^2 + 12Y + 7X + 160$	$X^2 + Y^2 + 75$	$2Y^2$
C	$(Y/2)^3$	$Y^2 + XY - 5Y$	XY
D	$2XY - 10Y$	$XY + 100$	Y^2

The profit made on article D is Rs. 200,

So,

$$\Rightarrow XY + 100 - Y^2 = 200$$

$$\Rightarrow XY - Y^2 = 100$$

$$\Rightarrow X = (100 + Y^2)/Y \dots \dots \dots (1)$$

The discount offered on article C is 20%,

So,

$$\Rightarrow (100 - 20)/100 \times (Y^3/8) = Y^2 + XY - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + XY - 5Y \dots \dots \dots (2)$$

Putting the value of X from equation (1) into equation (2), we get

$$\Rightarrow Y^3/10 = Y^2 + Y \times ((100 + Y^2)/Y) - 5Y$$

$$\Rightarrow Y^3/10 = Y^2 + 100 + Y^2 - 5Y$$

$$\Rightarrow Y^3 = 20Y^2 + 1000 - 50Y$$

$$\Rightarrow Y^3 - 20Y^2 - 1000 + 50Y = 0$$

$$\Rightarrow (Y - 20) \times (Y^2 + 50) = 0$$

We get imaginary roots for $(Y^2 + 50) = 0$,

So,

$$\Rightarrow Y - 20 = 0$$

$$\Rightarrow Y = 20.$$

Putting value of Y in equation (1),

$$\Rightarrow X = (100 + (20)^2)/20 = 500/20 = 25$$

So,

$$X = 25.$$

Putting the values of X and Y in the table above.

Articles	Marked Price (Rs.)	Selling Price (Rs.)	Cost Price (Rs.)
A	500	400	320
B	1200	1100	800
C	1000	800	500
D	800	600	400

The sum of the marked prices of all four articles is $(500 + 1200 + 1000 + 800) = \text{Rs. } 3500$.

The sum of the selling prices of all four articles is $(400 + 1100 + 800 + 600) = \text{Rs. } 2900$.

So the percentage of the discount given on all four articles together is $((MP - SP)/MP) \times 100$
 $= ((3500 - 2900)/3500) \times 100 = 120/7\%$.

Hence, the overall discount given on all four articles together is $120/7\%$.

From the given options $6Y/7\% = 120/7\%$.

Hence, the overall discount given on all four articles together is $6Y/7\%$.

125. Answer: d

Explanation:

The volume of the Cylinder i.e. $V = \pi r^2 h$

According to the question:

Volume of Cylinder (C1) - Volume of Cylinder (C2) = 9240cm^3

$$\Rightarrow \frac{22}{7} \times 14 \times 14 \times h - \frac{22}{7} \times 7 \times 7 \times h = 9240$$

$$\Rightarrow 616h - 154h = 9240$$

$$\Rightarrow 462h = 9240$$

$$\Rightarrow h = 20\text{cm.}$$

Hence, the correct answer is 20cm.

126. Answer: c

Explanation:

The volume of the Cylinder i.e. $V = \pi r^2 h$

According to the question:

Volume of Cylinder (C1) - Volume of Cylinder (C2) = 9240cm^3

$$\Rightarrow \frac{22}{7} \times 14 \times 14 \times h - \frac{22}{7} \times 7 \times 7 \times h = 9240$$

$$\Rightarrow 616h - 154h = 9240$$

$$\Rightarrow 462h = 9240$$

$$\Rightarrow h = 20\text{cm.}$$

New Volume of Cylinder (C2)

$$\Rightarrow \frac{22}{7} \times 10.5 \times 10.5 \times 20\text{ cm}^3$$

$$\Rightarrow 6930\text{ cm}^3$$

Volume of Cylinder (C1) = 12320 cm^3

Quantity of water remaining in cylinder (C1) = $(12320 - 6930)\text{cm}^3$

$$\Rightarrow 5390 \text{ cm}^3$$

Hence, the correct answer is 5390 cm^3 .

127. Answer: c

Explanation:

The ratio of the speeds of Stella, Tom, and Charlie is $s:1.25s:0.5s$

Let the speed of Stella be X kmph,

So the speed of Tom is $1.25X = 5X/4$ kmph and the speed of Charlie is $0.5X = X/2$ kmph.

Tom meets Stella after 4 hours,

So the distance travelled by Tom is $4 \times 5X/4 = 5X$ km.

Tom starts his journey at 10 a.m.,

So he meets Stella at 1 p.m.

Now Tom returns back to meet Charlie.

From the question,

Tom travels for 5 hours.

So,

The speed of Tom is given as 4 kmph,

So,

$$5X/4 = 4$$

$$X = 16/5$$

From the starting point the net distance travelled by Tom is $5X - 5X/4 = 15X/4 = (15 \times 16)/(4 \times 5) = 12$ km.

So the distance travelled from the starting point is 12 km.

128. Answer: b

Explanation:

The ratio of the speeds of Stella, Tom, and Charlie is $s:1.25s:0.5s$

Let the speed of Stella be X kmph,

So the speed of Tom is $1.25X = 5X/4$ kmph and the speed of Charlie is $0.5X = X/2$ kmph.

Tom meets Stella after 4 hours,

So the distance travelled by Tom is $4 \times 5X/4 = 5X$ km.

Tom starts his journey at 10 a.m.,

So he meets Stella at 1 p.m.

So till 1 p.m.,

The distance travelled by Charlie is $X/2 \times 3 = 1.5X$ km,

and the distance travelled by Tom is $5X/4 \times 4 = 5X$ km.

So the distance between Tom and Charlie now is $5X - 1.5X = 3.5X$ km.

When Tom and Charlie meet,

Let the distance travelled by Tom be Y km,

So the distance travelled by Charlie is $3.5X - Y$ km.

The time must be same when Tom and Charlie meet,

So,

$$(3.5X - Y)/(X/2) = Y/(5X/4)$$

$$7X - 2Y = 4Y/5$$

$$7X = 14Y/5$$

$$Y = 2.5X.$$

So the time taken by Tom is $2.5X/(5X/4) = 2$ hours.

So 2 hours after 1 p.m. both Tom and Charlie meet.

So, Tom and Charlie meet at 3 p.m.

129. Answer: b

Explanation:

Let the speed of the boat and the stream be B kmph and S kmph respectively.

The speed of the boat traveling upstream is 24km/hr,

So,

$$B - S = 24 \dots\dots\dots (1)$$

The boat can travel P km in Q hours while traveling upstream,

So,

$$P / (B - S) = Q$$

So,

$$P = 24Q \dots\dots\dots (2)$$

144 km in Q hours while traveling downstream,

So,

$$144 / (B + S) = Q$$

$$Q \times (B + S) = 144$$

$$Q = 144 / (B + S) \dots\dots\dots (3)$$

The time taken by the boat to travel 216 km upstream is R hours more than that while traveling the same distance downstream,

$$216 / (B - S) - 216 / (B + S) = R$$

$$216 / 24 - 216 / (B + S) = R$$

$$9 - 216 / (B + S) = R \dots\dots\dots (4)$$

$$S/B = ?$$

Statement I: $P - Q + R > 102$

We cannot answer the question with the data in statement I.

Statement II: Time taken by boat to cover P km distance downstream is $8/3$ hours,

$$P/(B + S) = 8/3$$

Put the value of equation (2) in the above equation,

$$24Q/(B + S) = 8/3$$

Put equation (3) in the above equation,

$$24 \times 144/(B + S)^2 = 8/3$$

$$(B + S)^2 = 9 \times 144$$

So,

$$B + S = 36 \dots \dots \dots (5)$$

From equations (1) and (5),

$$B = 30 \text{ kmph and } S = 6 \text{ kmph,}$$

So,

$$S/B = 1/5.$$

Required ratio= 1: 5

Statement III: $P + Q + R > 14$

We cannot answer the question with the data in statement I.

So, Statement II alone is sufficient to answer the question.

Hence, the correct answer is 2.

130. Answer: a

Explanation:

Statement I: CP of Article A is 224 less than the SP of Article B,

$$SP_B - CP_A = 224 \dots\dots\dots (1)$$

Discount given in Article A is 30% and the profit earned in Article B is 40%,

$$0.7 \times MP_A = SP_A \dots\dots\dots (2)$$

$$SP_B = 1.4CP_B \dots\dots\dots (3)$$

We cannot answer the question with the data in statement I.

Statement II: SP of Article A is Rs. 140 more than Article B. On Article A, a markup of Rs. 264 is given.

$$SP_A - SP_B = 140 \dots\dots\dots (4)$$

$$MP_A = \text{Rs. } 264.$$

We cannot answer the question with the data in statement II.

On combining data given in statement I and statement II, we get

Put the value in equation (2),

$$0.7 \times 264 = SP_A$$

$$SP_A = \text{Rs. } 184.8.$$

Put this in equation (4),

$$SP_B = \text{Rs. } 44.8.$$

So,

$$MP_A - SP_B = \text{Rs. } 219.2.$$

So Statements I and II together are sufficient.

Statement III: Discount allowed on Article B is Rs. 56 more than the profit earned on Article A.

$$MP\ B - SP\ B - (SP\ A - CP\ A) = 56 \dots\dots\dots (5)$$

We cannot answer the question with the data in statement III.

Hence, the correct answer is 1.

131. Answer: a

Explanation:

Two mixtures (A and B) are in the ratio of 3: 2.

Let the total quantity of mixtures be 3P and 2P respectively.

Mixture A contains x% of milk and a% of water,

So the total quantity of water in the mixture is $a\% = (100 - x)\%$

So the total quantity of milk and water in the mixture is $(x/100) \times 3P$ and $((100 - x)/100) \times 3P$ respectively.

Mixture B contains y% of milk and b% of water,

So the total quantity of water in the mixture is $b\% = (100 - y)\%$

So the total quantity of milk and water in the mixture is $(y/100) \times 2P$ and $((100 - y)/100) \times 2P$ respectively.

When mixture B is mixed with mixture A, then the final quantity of milk becomes 23% of the total mixture,

$$(x / 100) \times 3P + (y / 100) \times 2P = 0.23 \times 5P$$

$$3x + 2y = 115 \dots\dots\dots (1)$$

$$x + y = 45 \dots\dots\dots (2)$$

from (1) and (2),

$$x = 25 \text{ and } y = 20.$$

$$\text{Statement I: } (x - y) = 5$$

Statement not required since we already have values of x and y.

Statement II: The initial quantity of mixture A is 60 liters.

So, $3P = 60$ liters,

So $P = 20$ liters.

The milk in the final mixture is 23%,

So the total quantity of milk is 4.6 liters.

So statement II alone is sufficient.

Statement III: if 15 liters of mixture is taken out of mixture A and mixed with mixture B, then the total quantity of water in mixture B is 43.25 liters.

So water taken out is $\left(\frac{100 - x}{100}\right) \times 15 = \frac{3}{4} \times 15 = 11.25$ liters.

So the water in mixture B = $43.25 - 11.25 = 32$ liters.

So,

$$\left(\frac{100 - y}{100}\right) \times 2P = 32$$

$$1.6P = 32$$

$$P = 20$$

So, statement III alone is sufficient.

Either statement II alone or statement III alone is sufficient.

Hence, the correct answer is 1.

132. Answer: c

Explanation:

The maximum capacity of each bowl is $11R^3/42 \text{ m}^3$

So the total volume oil taken out is $N \times \left(11R^3/42\right) \text{ m}^3 \dots\dots\dots (1)$

Volume of the cylinder is $\left(22/7\right) \times R^2 \times h = \left(22/7\right) \times R^2 \times (R + 7) \dots\dots\dots (2)$

The volumes of N hemispherical bowls = $N \times \left(2/3\right) \times \left(22/7\right) \times r^3 \dots\dots\dots (3)$

Equating equations (1) and (2),

$$N \times \left(\frac{11R + 3}{42} \right) = \left(\frac{22}{7} \right) \times R \times 2 \times (R + 7)$$

$$N \times \left(\frac{R}{6} \right) = 2 \times (R + 7)$$

$$NR = 12R + 84$$

$$R \times (N - 12) = 84$$

$$R = 84 / (N - 12) \dots\dots\dots (4)$$

For R to be an integer value, N - 12 must be a factor of 84.

And both N and R are positive integers,

So,

$$N > 12.$$

And the values of R can be $0 < R < 85$.

Checking the answers for all the given options:

For N = 13,

$$R = 84 / (13 - 12) = 84.$$

Here we get R and N both as integers.

So, N = 13 is a possible value.

For N = 8 we get a negative value,

So it is not possible.

For N = 16,

$$R = 84 / (16 - 12) = 21.$$

Here we get R and N both as integers.

So, N = 16 is a possible value.

For N = 17,

$R = 84/(17 - 12) = \text{Non-integer value.}$

So, the only possible solutions are $N = 13$ and $N = 16$.

Hence, the correct answer is 3.

133. Answer: d

Explanation:

The strike rate of a batsmen = $(\text{Total runs scored} / \text{Total number of balls faced}) \times 100$

The total number of balls faced by B is 180 and his strike rate is 33.33% in a match,

$33.33 = \text{Total runs scored by B} / 180 \times 100$

$100/3 \times 180/100 = 60.$

So the total runs scored by B = 60.

If A played the the same number of balls as that of B, then his strike rate is twice the strike rate of B,

So the strike rate of A becomes 66.66%.

So in 180 balls, the runs scored by A by 66.66% strike rate is $66.66 \times 180/100 = 120$ runs.

The strike rate of A is 25,

So the ratio of runs scored to that of the balls faced by A is 1:4.

So the total number of balls faced by A is $120 \times 4 = 480$ balls.

The total number of balls played by C is 50% less than the total number of balls played by A,

So the total number of balls played by A is $480/2 = 240$ balls.

The central angle Z° is 198°,

Since $360^\circ = 100\%$,

So, $198^\circ = (198^\circ / 360^\circ) \times 100 = 55\%$,

So,

$Z\% = 55\%$.

So,

$$X\% + Y\% = 45\% \dots\dots\dots (1)$$

But the total runs scored by A and B are $120 + 60 = 180$,

So,

$$45\% = 180,$$

So,

$$100\% = 180 \times 100 / 45 = 400.$$

So the total runs scored by C is $400 - (120 + 60) = 220$.

So putting the data in the tabular form:

Batsmen	Runs scored	Balls faced
A	120	480
B	60	180
C	220	240

The total number of balls faced by A is same as the balls faced by C,

So the total number of balls faced by A is 240,

So the new strike rate of A is $120 / 240 \times 100 = 50\%$.

The total number of runs scored by B is same as the total number of runs scored by C,

So the total number of runs scored by B is 220,

So the strike rate of B is $220 / 180 \times 100 = 122.22 = 1100 / 9\%$

So the difference is $1100 / 9 - 50 = 650 / 9\%$.

Hence, the correct answer is 4.

134. Answer: b

Explanation:

The strike rate of a batsmen = (Total runs scored/Total number of balls faced) x 100

The total number of balls faced by B is 180 and his strike rate is 33.33% in a match,

$$33.33 = \text{Total runs scored by B} / 180 \times 100$$

$$100/3 \times 180/100 = 60.$$

So the total runs scored by B = 60.

If A played the the same number of balls as that of B, then his strike rate is twice the strike rate of B,

So the strike rate of A becomes 66.66%.

So in 180 balls, the runs scored by A by 66.66% strike rate is $66.66 \times 180/100 = 120$ runs.

The strike rate of A is 25,

So the ratio of runs scored to that of the balls faced by A is 1:4.

So the total number of balls faced by A is $120 \times 4 = 480$ balls.

The total number of balls played by C is 50% less than the total number of balls played by A,

So the total number of balls played by A is $480/2 = 240$ balls.

The central angle Z° is 198 0,

Since $360^\circ = 100\%$,

$$\text{So, } 198^\circ = (198^\circ / 360^\circ) \times 100 = 55\%,$$

So,

$$Z\% = 55\%.$$

So,

$$X\% + Y\% = 45\% \dots\dots\dots (1)$$

But the total runs scored by A and B are $120 + 60 = 180$,

So,

$$45\% = 180,$$

So,

$$100\% = 180 \times 100/45 = 400.$$

So the total runs scored by C is $400 - (120 + 60) = 220$.

So putting the data in the tabular form:

Batsmen	Runs scored	Balls faced
A	120	480
B	60	180
C	220	240

C is dealing only in boundaries (fours and sixes) and he had hit 25 fours in his innings,

So the total number of runs scored by hitting fours is $4 \times 25 = 100$,

The total number of runs scored by hitting sixes are $220 - 100 = 120$,

So the total number of sixes hit by C is $120/6 = 20$,

So the total number of balls faced are $25 + 20 = 45$,

So the total number of dot balls are $240 - 45 = 195$.

Hence, the correct answer is 2.

135. Answer: a

Explanation:

The strike rate of a batsmen = $(\text{Total runs scored} / \text{Total number of balls faced}) \times 100$

The total number of balls faced by B is 180 and his strike rate is 33.33% in a match,

$$33.33 = \text{Total runs scored by B} / 180 \times 100$$

$$100/3 \times 180/100 = 60.$$

So the total runs scored by B = 60.

If A played the the same number of balls as that of B, then his strike rate is twice the strike rate of B,

So the strike rate of A becomes 66.66%.

So in 180 balls, the runs scored by A by 66.66% strike rate is $66.66 \times 180/100 = 120$ runs.

The strike rate of A is 25,

So the ratio of runs scored to that of the balls faced by A is 1:4.

So the total number of balls faced by A is $120 \times 4 = 480$ balls.

The total number of balls played by C is 50% less than the total number of balls played by A,

So the total number of balls played by A is $480/2 = 240$ balls.

The central angle Z° is 198 0,

Since $360 0 = 100\%$,

$$\text{So, } 198 0 = (198 0/360 0) \times 100 = 55\%,$$

So, Your Personal Exams Guide

$$Z\% = 55\%.$$

So,

$$X\% + Y\% = 45\% \dots\dots\dots (1)$$

But the total runs scored by A and B are $120 + 60 = 180$,

So,

$$45\% = 180,$$

So,

$$100\% = 180 \times 100/45 = 400.$$

So the total runs scored by C is $400 - (120 + 60) = 220$.

So putting the data in the tabular form:

Batsmen	Runs scored	Balls faced
A	120	480
B	60	180
C	220	240

The total number of runs scored by all batsmen are 400,

So,

$$400 = 360^\circ,$$

So the total number of runs scored by A in degrees = $360^\circ \times (120/400) = 108^\circ$.

And the total number of balls faced by all the batsmen are 900.

So,

$$900 = 360^\circ,$$

So the total number of balls faced by B in degrees = $360^\circ \times (180/900) = 72^\circ$.

So, the difference between the central angles made by the total number of runs scored A and the total number of balls faced by B is $108^\circ - 72^\circ = 36^\circ$.

Hence, the correct answer is 1.

136. Answer: d

Explanation:

From Statement I:

The age of A after sixteen years is equal to the summation of the ages of $\frac{3}{4}$ th of the present age of C and $\frac{3}{5}$ th of the present age of B.

$$A + 16 = \left(\frac{3}{4}\right) \times C + \left(\frac{3}{5}\right) \times B \dots\dots\dots (1)$$

From Statement II:

B is 27 years elder than his son and A is 32 years elder than B's son.

$$B = 27 + \text{B's son} \dots\dots\dots (2)$$

$$A = 32 + \text{B's son} \dots\dots\dots (3)$$

From equations (2) and (3),

$$A = B + 5$$

$$B = A - 5 \dots\dots\dots (4)$$

Put equation (4) in equation (1),

$$A + 16 = \left(\frac{3}{4}\right) \times C + \left(\frac{3}{5}\right) \times (A - 5)$$

$$2A/5 + 19 = 3C/4$$

$$8A + 380 = 15C \dots\dots\dots (5)$$

From Statement III:

Six fifth of the present age of A is equal to the age of C 8 years hence.

$$\left(\frac{6}{5}\right) \times A = C + 8$$

$$A = \left(\frac{5}{6}\right) \times C + 20/3 \dots\dots\dots (6)$$

From Statements I, II, and III together, we get:

From equations (5) and (6),

$$A = 50 \text{ years and } C = 52 \text{ years.}$$

So, all three statements together are sufficient.

137. Answer: b

Explanation:

Case I:

The marked price of the article is $((100 + Q)/100) \times P$

The discount given is 25%,

So the selling price of the article is $((100 - 25)/100) \times \text{Marked price} = 0.75 \times ((100 + Q)/100) \times P$

The profit earned is Rs. $(Q + 20)$,

So,

Selling price - Cost price = $Q + 20$

$0.75 \times ((100 + Q)/100) \times P - P = Q + 20$

$(3/4) \times (P + PQ/100) - P = Q + 20 \dots\dots\dots (1)$

Case II:

The marked price of the article is $((100 + Q + 5)/100) \times P = ((105 + Q)/100) \times P$

The discount given is 25%,

So the selling price of the article is $((100 - 25)/100) \times \text{Marked price} = 0.75 \times ((105 + Q)/100) \times P$

The profit earned is Rs. $(Q + 65)$,

So,

Selling price - Cost price = $Q + 65$

$0.75 \times ((105 + Q)/100) \times P - P = Q + 65$

$3/4 \times (P + P \times (Q + 5)/100) - P = Q + 65 \dots\dots\dots (2)$

Subtract equation (1) from equation (2),

$(3/4) \times (5P/100) = 45$

$P = \text{Rs.}1200$.

Put this in equation (1),

$(3/4) \times (1200 + 12Q) - 1200 = Q + 20$

$900 + 9Q - 1200 = Q + 20$

$$8Q = 320$$

$$Q = 40.$$

Checking the options:

$$0.25P = 1.2Q - 8^2$$

$$\text{LHS} = 0.25 \times 1200 = 300.$$

$$\text{RHS} = 1.2 \times 40 - 64 = -16.$$

LHS is not equal to RHS.

$$0.5P = 15Q$$

$$\text{LHS} = 0.5 \times 1200 = 600.$$

$$\text{RHS} = 15 \times 40 = 600.$$

$$\text{LHS} = \text{RHS}.$$

$$P = 30 + 10Q$$

$$\text{LHS} = 1200,$$

$$\text{RHS} = 30 + 10 \times 40 = 430$$

LHS is not equal to RHS.

$$P = 20Q$$

$$\text{LHS} = 1200,$$

$$\text{RHS} = 20 \times 40 = 800.$$

LHS is not equal to RHS.

Hence, the correct answer is 2.

138. Answer: b

Explanation:

X men can complete the work in Y days,

So,

1 man can complete the whole work in XY days.

Y women can complete the work in X days,

So,

1 woman can complete the whole work in XY days.

It is given that 20 men and 16 women can complete the work in $53\frac{1}{3}$ days = $\frac{160}{3}$ days.

So,

$$20/XY + 16/XY = 3/160$$

$$36/XY = 3/160$$

$$XY = 1920.$$

So the total work is 1920.

20 men and 24 women started working together and they worked together for 0.6D days,

So the work completed in 0.6 days is $(20 + 24) \times 0.6D = 26.4D$.

After that B number of boys did the work in 0.45D days,

So, the work done is $B \times 0.45D = 0.45BD$.

So the total work done is = $26.4D + 0.45BD$ (1)

The whole work is completed which B number of boys can complete it in D days,

So,

$$BD = 1920$$

Put this in equation (1),

$$\text{So the total work done is} = 26.4D + 0.45 \times 1920 = 26.4D + 864$$

But the total work that is done is 1920,

So,

$$1920 = 26.4D + 864$$

$$D = 10560/264 = 40 \text{ days.}$$

So the value of D is 40.

139. Answer: d

Explanation:

X men can complete the work in Y days,

So,

1 man can complete the whole work in XY days.

Y women can complete the work in X days,

So,

1 woman can complete the whole work in XY days.

It is given that 20 men and 16 women can complete the work in $53 \frac{1}{3}$ days = $160/3$ days.

So,

$$20/XY + 16/XY = 3/160$$

$$36/XY = 3/160$$

$$XY = 1920.$$

G girls worked together the same work would have completed in 26 days,

So the work is completed by a girl in 26G days.

(G + 24) girls and (10 men and 14 women) together can complete the work in 16 days,

So,

$$(G + 24)/26G + ((10 + 14)/(1920)) = 1/16$$

$$(G + 24)/26G + 1/80 = 1/16$$

$$(G + 24)/26G = 1/16 - 1/80$$

$$(G + 24)/26G = 1/20$$

$$20G + 480 = 26G$$

$$G = 80.$$

So the value of G is 80.

140. Answer: d

Explanation:

X men can complete the work in Y days,

So,

1 man can complete the whole work in XY days.

Y women can complete the work in X days,

So,

1 woman can complete the whole work in XY days.

It is given that 20 men and 16 women can complete the work in $53 \frac{1}{3}$ days = $160/3$ days.

So,

$$20/XY + 16/XY = 3/160$$

$$36/XY = 3/160$$

$$XY = 1920.$$

$$\text{One day work of 15 Men and 12 Women} = ((15 + 12)/1920) = 9/640$$

So the work is completed in $640/9 = 71 \frac{1}{9}$ days.

141. Answer: c

Explanation:

Investment of Aman = Rs. $X - 1200$,

Investment of Preeti = Rs. X ,

Investment of Shristi = Rs. $X + 1800$.

Let the total profit of the business be Rs. T .

So the profit of Priti is $(X/(X - 1200 + X + X + 1800)) \times T = \text{Rs. } (XT/(3X + 600))$.

If the profit of Preeti is invested in a scheme at the rate of 18% p.a simple interest for 5 years,

$$SI = (XT/(3X + 600)) \times 5 \times 18/100$$

So,

$$4000 = (XT/(3X + 600)) \dots\dots\dots (1)$$

If the total profit of the business is Rs. 4800 more than twice the profit of Preeti,

$$T - 2 \times (XT/(3X + 600)) = 4800$$

Put the value of equation (1),

$$T - 2 \times 4000 = 4800$$

$$T = 12800.$$

Put this in equation (1),

$$10 = (32X/(3X + 600))$$

$$30X + 6000 = 32X$$

$$X = 3000.$$

Checking the values:

I. Sum of the Investment of Aman and Preeti is equal to the investment of Shristi

The sum of the investments of Aman and Preeti = $X - 1200 + X = 2X - 1200 = \text{Rs. } 4800$.

The investment of Shristi = $X + 1800 = 3000 + 1800 = \text{Rs. } 4800$.

So the statement is correct.

II. Value of X is a multiple of 18

$X = 3000$ and it is not a multiple of 18.

So the statement is incorrect.

III. Aman gets 18.75% of the total profit

Total profit of Aman = $\frac{(X - 1200)}{(X - 1200 + X + X + 1800)} \times 100 = \frac{(X - 1200)}{(3X + 600)} \times 100 = \frac{1800}{9600} \times 100 = 18.75\%$.

So the statement is correct.

Hence, only statement I and III is correct.

142. Answer: d

Explanation:

$$a + b = 61 \dots\dots\dots (1)$$

We know,

$$\text{Dividend} - (\text{Divisor} \times \text{Quotient}) = \text{Remainder}$$

So,

$$b - a \times 2 = 7$$

$$b - 2a = 7 \dots\dots\dots (2)$$

from equations (1) and (2),

$$3a = 54$$

$$a = 18.$$

Put this in equation (1),

$$18 + b = 61$$

$$b = 43.$$

So,

$$b - a = 25.$$

$c n - 2$ is the largest value of the negative integer,

So,

$$c n - 2 = -1$$

$$c n = 1,$$

Case I:

For $n = 0$,

C can have any number of values.

Example: $2^0 = 1, 3^0 = 1$, etc.

So,

$$c n - n + a = 1 - 0 + 18 = 19.$$

Case II:

For $n = 1$,

C should be equal to 1.

So,

$$c n - n + a = 1 - 1 + 18 = 18.$$

So,

The number should lie between 19 and 25.

Hence the value 23 definitely lies between 19 and 25.

143. Answer: e

Explanation:

Two boats A and B are rowing in two different rivers M and N respectively.

Let the length covered in rivers M and N be M km and N km respectively.

Let the speed of the stream and the boat in river M be S kmph and A kmph respectively and the speed of the stream and the boat in river N be T kmph and B kmph respectively.

Statement I: Boat B can cover 96km upstream in 4 hours. Two boats A and B can cover 360km downstream in 6 hours.

$$96/(A - S) = 4$$

$$A - S = 24$$

$$S = A - 24 \dots\dots\dots (1)$$

$$360/(A + S) + 360/(B + T) = 6$$

$$60/(A + S) + 60/(B + T) = 1$$

Put equation (1) in the above equation,

$$60/(A + A - 24) + 60/(B + T) = 1$$

$$60/(2A - 24) + 60/(B + T) = 1 \dots\dots\dots (2)$$

Statement II: Speed of Streams in both the rivers is 7 hours

So,

$$S + T = 7 \dots\dots\dots (3)$$

From equation (1) and (3),

$$7 - T = A - 24$$

$$A = 31 - T$$

Put this in equation (2),

$$60/(62 - 2T - 24) + 60/(B + T) = 1$$

$$60/(38 - 2T) + 60/(B + T) = 1$$

Statement III: The distance covered by Boat B in Y hours downstream is 150km more than the distance covered by Boat B in (Y + 5) traveling upstream.

$$(B + T) \times Y - ((B - T) \times (Y + 5)) = 150$$

$$BY + YT - (BY + 5B - YT - 5T) = 150$$

$$2YT - 5B + 5T = 150 \dots\dots\dots (4)$$

The values cannot be calculated even by solving all the equations.

So,

All the statements together cannot calculate the answer.

144. Answer: b

Explanation:

Three persons P, Q, and R started their journey at 9: 30 a.m, 11: 00 a.m., and 2:00 p.m. respectively.

The speed of Q is $5 \frac{2}{3} \text{ m/sec} = 90 \text{ kmph}$.

Q reached the destination on the same day at 7: 30 p.m.,

So the total distance covered by Q is $8.5 \times 90 = 765 \text{ km}$.

Q is the fastest person and R is not the slowest person.

So, we can say P is the slowest person.

The speed of P is 15% less than the speed of Q,

So the speed of P is $0.85 \times 90 = 76.5 \text{ kmph}$.

So P will reach the destination after $765/76.5 = 10 \text{ hours}$.

P starts his journey at 9.30 a.m. so he will reach the destination at 7.30 p.m.

I. After 6 hours with respect to Q

So the statement is correct.

II. At 7: 30 p.m.

Both P and Q reach at the same point.

Hence the statement is false.

III. After 7 hours with respect to R

No date is available to find when R will reach the destination.

So the statement is insufficient.

Hence, only statement II is correct.

145. Answer: e

Explanation:

Three persons P, Q, and R started their journey at 9: 30 a.m, 11: 00 a.m., and 2:00 p.m. respectively.

The speed of Q is $5 \frac{2}{3} \text{ m/sec} = 90 \text{ kmph}$.

Q reached the destination on the same day at 7: 30 p.m.,

So the total distance covered by Q is $8.5 \times 90 = 765 \text{ km}$.

Q is the fastest person and R is not the slowest person.

So, we can say P is the slowest person.

Checking for the statements that can be true:

I. R reached his destination in 5 hours and P reached his destination in 3 hours,

If R has to reach the destination in 5 hours,

then the speed of R should be $765/5 = 153 \text{ kmph}$,

and the speed of P should be $765/3 = 255 \text{ kmph}$.

But the speeds of R and P must be less than Q,

So the statement cannot be true.

II. R reached his destination in 3 hours and P reached his destination in 5 hours

If R has to reach the destination in 3 hours,

then the speed of R should be $765/3 = 255$ kmph,

and the speed of P should be $765/5 = 153$ kmph.

But the speeds of R and P must be less than Q,

So the statement cannot be true.

III. If the distance increased by 90km, and the speed of P is $1/5$ th of the speed of Q, then R reached the new distance at 3: 30 p.m.

So the total distance is $765 + 90 = 855$ km,

Speed of P = $1/5 \times 90 = 18$ kmph.

It means the speed of R should be between 18 kmph and 90 kmph.

If R reaches at 3.30 p.m.,

Total time taken by R is 1.5 hours,

So,

the speed of R is $855/1.5 = 570$ kmph.

So the statement cannot be true.

Hence, the correct answer is none of these.

146. Answer: e

Explanation:

Series I: 590, 615, 651, 711, 795, 927

Logic used:

$$591 + (12 \times 2) = 615$$

$$615 + (12 \times 3) = 651$$

$$651 + (12 \times 5) = 711$$

$$711 + (12 \times 7) = 795$$

$$795 + (12 \times 11) = 927$$

The wrong number in the series is (590).

Series II: 64, 164, 285, 510, 546, 770

Logic used:

$$64 + (6 + 4) \times 2 = 164$$

$$164 + (1 + 6 + 4) \times 2 = 285$$

$$285 + (2 + 8 + 5) \times 2 = 510$$

$$510 + (5 + 1 + 0) \times 2 = 546$$

$$546 + (5 + 4 + 6) \times 2 = 771$$

The wrong number in the series is (770).

Series III: 18, 25.5, 40.5, 63, 93, 131

$$18 + 7.5 = 25.5$$

$$25.5 + 15 = 40.5$$

$$40.5 + 22.5 = 63$$

$$63 + 30 = 93$$

$$93 + 37.5 = 130.5$$

The wrong number in the series is (131).

Value of X, Y, and Z are 591, 771, and 130.5 respectively.

$$\text{In equation (I): } (X - Z) + 5 = Y - 15 \times 2 + 2$$

$$\Rightarrow (591 - 130.5) + 5 = 771 - 225 + 2$$

$$\Rightarrow 460.5 + 5 = 548$$

$$\Rightarrow 465.5 \neq 548$$

So, equation (I) is not correct.

$$\text{In equation (II): } (252 - Y) = (X + Z) - 785$$

$$\Rightarrow (625 - 771) = (591 + 130.5) - 785$$

$$\Rightarrow -146 \neq -63.5$$

So, equation (II) is not correct.

$$\text{In equation (III): } Z + 300 - (X + Y) = 940$$

$$\Rightarrow 130.5 + 300 - (591 + 771) = 940$$

$$\Rightarrow 430.5 - 1362 = 940$$

$$\Rightarrow -931.5 \neq 940$$

So, equation (III) is not correct.

Hence, the correct answer is none of the above.

147. Answer: e

Explanation:

Series I: 590, 615, 651, 711, 795, 927

Logic used:

$$591 + (12 \times 2) = 615$$

$$615 + (12 \times 3) = 651$$

$$651 + (12 \times 5) = 711$$

$$711 + (12 \times 7) = 795$$

$$795 + (12 \times 11) = 927$$

The wrong number in the series is (590).

Series II: 64, 164, 285, 510, 546, 770

Logic used:

$$64 + (6 + 4) \times 2 = 164$$

$$164 + (1 + 6 + 4) \times 2 = 285$$

$$285 + (2 + 8 + 5) \times 2 = 510$$

$$510 + (5 + 1 + 0) \times 2 = 546$$

$$546 + (5 + 4 + 6) \times 2 = 771$$

The wrong number in the series is (770).

Series III: 18, 25.5, 40.5, 63, 93, 131

$$18 + 7.5 = 25.5$$

$$25.5 + 15 = 40.5$$

$$40.5 + 22.5 = 63$$

$$63 + 30 = 93$$

$$93 + 37.5 = 130.5$$

The wrong number in the series is (131).

Value of P, Q, and R are 590, 771, and 131 respectively.

In option (1): $Q - (P + R) = 40$

$$771 - (590 + 131) = 40$$

$$771 - 721 = 50$$

So, option (1) is incorrect.

In option (2): $P < Q > R$

$$590 < 771 > 131$$

So, option 2 is correct.

In option (3): $(R + P) < Q$

$$(131 + 590) < 771$$

$$721 < 771$$

So, option 3 is correct.

Hence, the correct answer is both 2 and 3.

148. Answer: d

Explanation:

Series I: 590, 615, 651, 711, 795, 927

Logic used:

$$591 + (12 \times 2) = 615$$

$$615 + (12 \times 3) = 651$$

$$651 + (12 \times 5) = 711$$

$$711 + (12 \times 7) = 795$$

$$795 + (12 \times 11) = 927$$

The wrong number in the series is **(590)**.

Series II: 64, 164, 285, 510, 546, 770

Logic used:

$$64 + (6 + 4)^2 = 164$$

$$164 + (1 + 6 + 4)^2 = 285$$

$$285 + (2 + 8 + 5)^2 = 510$$

$$510 + (5 + 1 + 0)^2 = 546$$

$$546 + (5 + 4 + 6)^2 = 771$$

The wrong number in the series is (770).

Series III: 18, 25.5 , 40.5, 63 , 93, 131

$$18 + 7.5 = 25.5$$

$$25.5 + 15 = 40.5$$

$$40.5 + 22.5 = 63$$

$$63 + 30 = 93$$

$$93 + 37.5 = \mathbf{130.5}$$

The wrong number in the series is (131).

First term of the series is 23, so the number series will be:

$$23$$

$$23 + (2 + 3)^2 = 48$$

$$48 + (4 + 8)^2 = \mathbf{192 = K}$$

$$192 + (1 + 9 + 2)^2 = 336$$

$$336 + (3 + 3 + 6) = \mathbf{480 = L}$$

So, the value of (L - K) is $(480 - 192) = \mathbf{288}$

Hence, the correct answer is 288.

149. Answer: d

Explanation:

$$A. (a \times a) - 3a - \sqrt{(4a^2)} = -6$$

$$a^2 - 3a - 2a + 6 = 0$$

$$a^2 - 5a + 6 = 0$$

$$(a - 2) \times (a - 3) = 0$$

So the roots of the equation are 2 and 3.

$$B. ((b^2) - \sqrt{81}b^2) = -4 \times (5)$$

$$b^2 - 9b + 20 = 0$$

$$(b - 4) \times (b - 5) = 0$$

So the roots of the equation are 4 and 5.

$$C. (c^2 - \sqrt{625}c^6) / 5c^3 + (4 \times 7) = 39c$$

$$(c^2 - 25c^6) / 5c^3 + 28 = 39c$$

$$5c^2 - 39c + 28 = 0$$

$$(c - 7) \times (5c - 4) = 0$$

So the roots of the equation are 4/5 and 7.

$$D. d^2 - (3 \times 5)d = \{7 \times (-8)\}$$

$$d^2 - 15d + 56 = 0$$

$$(d - 7) \times (d - 8) = 0$$

The largest root of A, B, C, and D 3, 5, 7, and 8 respectively.

Making the factors of 3, 5, 7, and 8.

$$3 = 1 \times 3,$$

$$5 = 1 \times 5,$$

$$7 = 1 \times 7,$$

$$8 = 1 \times 2 \times 2 \times 2$$

$$LCM = 3 \times 5 \times 7 \times 8 = 840.$$

So the LCM is 840.

Hence, the correct answer is 4.

150. Answer: d

Explanation:

$$A. (a \times a) - 3a - \sqrt{(4a^2)} = -6$$

$$a^2 - 3a - 2a + 6 = 0$$

$$a^2 - 5a + 6 = 0$$

$$(a - 2) \times (a - 3) = 0$$

So the roots of the equation are 2 and 3.

$$B. ((b^2) - \sqrt{81b^2}) = -4 \times (5)$$

$$b^2 - 9b + 20 = 0$$

$$(b - 4) \times (b - 5) = 0$$

So the roots of the equation are 4 and 5.

$$C. (c^2 - \sqrt{625c^6}) / 5c^3 + (4 \times 7) = 39c$$

$$(c^2 - 25c^3) / 5c^3 + 28 = 39c$$

$$5c^2 - 39c + 28 = 0$$

$$(c - 7) \times (5c - 4) = 0$$

So the roots of the equation are 4/5 and 7.

$$D. d^2 - (3 \times 5)d = \{7 \times (-8)\}$$

$$d^2 - 15d + 56 = 0$$

$$(d - 7) \times (d - 8) = 0$$

The difference between the roots of A is 1,

The difference between the roots of B is 1,

The difference between the roots of C is not equal to 1,

The difference between the roots of D is 1.

The difference between the highest and the lowest root is 1 for A, B, and D.

Hence, the correct answer is 4.

151. Answer: a

Explanation:

$$I. \sqrt{(100x^4 + 125x^4)} + 7x + 4\frac{1}{2} = -4x$$

So,

$$\sqrt{(225x^4)} + 7x + 4\frac{1}{2} = -4x$$

$$15x^2 + 11x + 2 = 0$$

$$(5x + 2) \times (3x + 1) = 0$$

So the roots are $-\frac{6}{15}$ and $-\frac{5}{15}$.

$$II. \sqrt[3]{(64y^3)} \times 2y + 19y + 7 = -3y + \sqrt{1600}$$

$$4y \times 2y + 19y + 49 = -3y + 40$$

$$8y^2 + 22y + 9 = 0$$

$$(4y + 9) \times (2y + 1) = 0$$

So the roots are $-\frac{9}{4}$ and $-\frac{1}{2}$.

Solving for solution:

If the smallest root of equation II is multiplied by 2,

$$\text{The root becomes } 2 \times \left(-\frac{9}{4}\right) = -\frac{9}{2}.$$

So the resultant value is $-\frac{9}{2}$ or -4.5 .

(i) Resultant $> (-4)$

$$-4.5 < (-4)$$

So the statement is false.

(ii) Resultant $+ 21\left(\frac{1}{2}\right) = \text{Multiple of } 5$

$$\text{LHS} = -4.5 + 10.5 = 6$$

It is not the multiple of 5.

So the statement is false.

(iii) Resultant is less than the smallest root of equation I

$$-4.5 < \frac{2}{5}$$

So the statement is true.

Hence, only statement (iii) is true.

152. Answer: a

Explanation:

According to the question:

$$K = N - M \text{ -----equation (1)}$$

$$N + K = 95$$

$$\Rightarrow K = 95 - N \text{ -----equation (2)}$$

$$N + M = 115$$

$$\Rightarrow M = 115 - N \text{ -----equation (3)}$$

Putting the value of K and M in equation (1), we get:

$$\Rightarrow 95 - N = N - 115 + N$$

$$\Rightarrow -3N = -115 - 95$$

$$\Rightarrow N = 70$$

Putting the value of N in equation (2), we get:

$$\Rightarrow K = 95 - 70$$

$$\Rightarrow K = 25$$

Putting the value of N in equation (3), we get:

$$\Rightarrow M = 115 - 70$$

$$\Rightarrow M = 45$$

So, the value of M, N, and K is 45, 70, and 25 respectively.

Now, number of poems published in the year 2012 $\Rightarrow (1640 - 702) = 938$

Number of poems published in the years 2013 $\Rightarrow (1910 - 1640) = 270$

Number of stories published in the year 2011:

45% = 702, so 55% = 858

Number of stories published in the year 2012:

70% = 938, so 30% = 402

Number of stories published in the year 2013:

25% = 270, so 75% = 810

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published	Number of Stories published
2011	45%	702	858
2012	70%	938	402
2013	25%	270	810

Total number of poems and stories published in the year 2011 $\Rightarrow (702 + 858) = 1560$

Total number of poems and stories published in the year 2012 $\Rightarrow (938 + 402) = 1340$

Total number of poems and stories published in the year 2013 $\Rightarrow (270 + 810) = 1080$

So, the total number of poems and stories published in all three years $\Rightarrow (1560 + 1340 + 1080) = 3980$

Hence, the correct answer is 3980.

153. Answer: e

Explanation:

According to the question:

$$K = N - M \text{ -----equation (1)}$$

$$N + K = 95$$

$$\Rightarrow K = 95 - N \text{ -----equation (2)}$$

$$N + M = 115$$

$$\Rightarrow M = 115 - N \text{ -----equation (3)}$$

Putting the value of K and M in equation (1), we get:

$$\Rightarrow 95 - N = N - 115 + N$$

$$\Rightarrow -3N = -115 - 95$$

$$\Rightarrow N = 70$$

Putting the value of N in equation (2), we get:

$$\Rightarrow K = 95 - 70$$

$$\Rightarrow K = 25$$

Putting the value of N in equation (3), we get:

$$\Rightarrow M = 115 - 70$$

$$\Rightarrow M = 45$$

So, the value of M, N, and K is 45, 70, and 25 respectively.

Now, number of poems published in the year 2012 $\Rightarrow (1640 - 702) = 938$

Number of poems published in the years 2013 $\Rightarrow (1910 - 1640) = 270$

Number of stories published in the year 2011:

$$45\% = 702, \text{ so } 55\% = 858$$

Number of stories published in the year 2012:

$$70\% = 938, \text{ so } 30\% = 402$$

Number of stories published in the year 2013:

$$25\% = 270, \text{ so } 75\% = 810$$

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published	Number of Stories published
2011	45%	702	858
2012	70%	938	402
2013	25%	270	810

Number of stories published in 2013 = 810

Number of stories published in 2011 = 858

$$\text{Required difference} = (858 - 810) = 48$$

In option (1): $N/2 + 13$

$$(70/2) + 13 = 48$$

So, option (1) is correct.

In option (2): $M + 3$

$$(45 + 3) = 48$$

So, option (2) is correct.

In option (3): $K \times 2 - 2$

$$(25 \times 2) - 2 = 48$$

So, option (3) is correct.

In option (1): $(N - M) + 23$

$$(70 - 45) + 23 = 48$$

So, option (4) is correct.

Hence, the correct answer is all of the above.

154. Answer: e

Explanation:

According to the question:

$$K = N - M \text{ -----equation (1)}$$

$$N + K = 95$$

$$\Rightarrow K = 95 - N \text{ -----equation (2)}$$

$$N + M = 115$$

$$\Rightarrow M = 115 - N \text{ -----equation (3)}$$

Putting the value of K and M in equation (1), we get:

$$\Rightarrow 95 - N = N - 115 + N$$

$$\Rightarrow -3N = -115 - 95$$

$$\Rightarrow N = 70$$

Putting the value of N in equation (2), we get:

$$\Rightarrow K = 95 - 70$$

$$\Rightarrow K = 25$$

Putting the value of N in equation (3), we get:

$$\Rightarrow M = 115 - 70$$

$$\Rightarrow M = 45$$

So, the value of M, N, and K is 45, 70, and 25 respectively.

Now, number of poems published in the year 2012 $\Rightarrow (1640 - 702) = 938$

Number of poems published in the years 2013 $\Rightarrow (1910 - 1640) = 270$

Number of stories published in the year 2011:

45% = 702, so 55% = 858

Number of stories published in the year 2012:

70% = 938, so 30% = 402

Number of stories published in the year 2013:

25% = 270, so 75% = 810

Years	Percentage of Poems published out of total poems and stories published	Number of Poems published	Number of Stories published
2011	45%	702	858
2012	70%	938	402
2013	25%	270	810

Number of poems published in 2014 = $(7M + 9)$, so $(45 \times 7) + 9 = 324$

Number of poems published in 2013 = 270

Required difference = $(324 - 270) = 54$

In option (1): $M + 9$

So, $(45 + 9) = 54$

So, option (1) is correct.

In option (2): $N - 4^2$

So, $70 - 16 = 54$

So, option (2) is correct.

Hence, the correct answer is both 2 and 3.

155. Answer: a

Explanation:

According to the question:

$$K = N - M \text{ -----equation (1)}$$

$$N + K = 95$$

$$\Rightarrow K = 95 - N \text{ -----equation (2)}$$

$$N + M = 115$$

$$\Rightarrow M = 115 - N \text{ -----equation (3)}$$

Putting the value of K and M in equation (1), we get:

$$\Rightarrow 95 - N = N - 115 + N$$

$$\Rightarrow -3N = -115 - 95$$

$$\Rightarrow N = 70$$

Putting the value of N in equation (2), we get:

$$\Rightarrow K = 95 - 70$$

$$\Rightarrow K = 25$$

Putting the value of N in equation (3), we get:

$$\Rightarrow M = 115 - 70$$

$$\Rightarrow M = 45$$

So, the value of M, N, and K is 45, 70, and 25 respectively.

Now, number of poems published in the year 2012 $\Rightarrow (1640 - 702) = 938$

Number of poems published in the years 2013 $\Rightarrow (1910 - 1640) = 270$

Number of stories published in the year 2011:

45% = 702, so 55% = **858**

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Years	Percentage of Poems published out of total poems and stories published	Number of Poems published	Number of Stories published
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The respective ratio between the number of stories published in 2018 and 2012 is 3K : (N - 3).

So, the required ratio will be 75: 67

So, the number of stories published in 2018 will be 450

According to the question:

If the total number of stories published in 2018 is 40% of the total number of poems and stories together published in the year 2018,

so, the total number of poems published in the year 2018 will be 40% = 450, so 60% = 675.

The number of poems published in 2011 = 702

Required difference $\Rightarrow (702 - 675) = 27$

Required percentage $\Rightarrow 27 / 675 \times 100 = 4\%$

In option (1): $K/5 - 1$

$\Rightarrow 25 / 5 - 1$

$\Rightarrow 5 - 1 = 4$

So, option (1) is correct

Hence, the correct answer is $K/5 - 1$.

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