



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

IBPS PO Mains – Memory Based Test (04th Feb 2021)

Total Time: 3 Hour

Total Marks: 200

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks	Sectional Timing
1	Reasoning & Computer Aptitude	45	45	0.25	1	60 Min
2	General Awareness	40	40	0.25	1	35 Min
3	English Language	35	35	0.25	1	40 Min
4	Data Analysis & Interpretation	35	35	0.25	1	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 given information carefully and answer the given question. (+1, -0.25)

There are 12 persons visit a location in six different months and two different dates. Months are January, March, June, September, November and December and dates are 13 and 18. They visit location according to the given conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
- 3) The number of letter in the given name is calculated based on the English alphabetical series.

The number of person between Beena and Pearl is one. Siya visits immediately after Tina. There are two persons visits between Beena and Kaya. Number of personn visit before Kaya is one less the number of person visit after Rekha. There is only one person between Gagan and Nirav. The number of persons after Siya is same as before Asha. Deep visits location somewhere before Vaibhav, but not immediately before. Esha visits immediately after Deep.

Who visit on 13th September?

- a. Pearl
- b. Nirav
- c. Vaibhav

d. Asha

e. Rekha

2. **Direction:** Read the given information carefully and answer the given question. (+1, -0.25)

There are 12 persons visit a location in six different months and two different dates. Months are January, March, June, September, November and December and dates are 13 and 18. They visit location according to the given conditions:

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The number of person between Beena and Pearl is one. Siya visits immediately after Tina. There are two persons visits between Beena and Kaya. Number of personn visit before Kaya is one less the number of person visit after Rekha. There is only one person between Gagan and Nirav. The number of persons after Siya is same as before Asha. Deep visits location somewhere before Vaibhav, but not immediately before. Esha visits immediately after Deep.

The number of persons between Deep and Gagan is same as number of persons between_____?

a. Esha and Beena

- b. Esha and Asha
- c. Nirav and Rekha
- d. Tina and Rekha
- e. Asha and Beena

3. **Direction:** Read the given information carefully and answer the given question. (+1, -0.25)

There are 12 persons visit a location in six different months and two different dates. Months are January, March, June, September, November and December and dates are 13 and 18. They visit location according to the given conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
- 3) The number of letter in the given name is calculated based on the English alphabetical series.

The number of person between Beena and Pearl is one. Siya visits immediately after Tina. There are two persons visits between Beena and Kaya. Number of person visit before Kaya is one less the number of person visit after Rekha. There is only one person between Gagan and Nirav. The number of persons after Siya is same as before Asha. Deep visits location somewhere before Vaibhav, but not immediately before. Esha visits immediately after Deep.

Who visit the location at last.

- a. Person who visit the location immediately after Tina.
- b. Vaibhav
- c. Tina
- d. Rekha
- e. Pearl

4. **Direction:** Read the given information carefully and answer the given question. (+1, -0.25)

There are 12 persons visit a location in six different months and two different dates. Months are January, March, June, September, November and December and dates are 13 and 18. They visit location according to the given conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
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The number of person between Beena and Pearl is one. Siya visits immediately after Tina. There are two persons visits between Beena and Kaya. Number of personn visit before Kaya is one less the number of person visit after Rekha. There is only one person between Gagan and Nirav. The number of persons after Siya is same as before Asha. Deep visits location somewhere before Vaibhav, but not immediately before. Esha visits immediately after Deep.

Which of the following statements are **not true** ?

I. Nirav visit the location immediately after Pearl.

II. Kaya visit the location after Asha.

III. One person visits after Siya.

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

5. **Direction:** Read the given information carefully and answer the given question. (+1, -0.25)

There are 12 persons visit a location in six different months and two different dates. Months are January, March, June, September, November and December and dates are 13 and 18. They visit location according to the given conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
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The number of person between Beena and Pearl is one. Siya visits immediately after Tina. There are two persons visits between Beena and Kaya. Number of personn visit before Kaya is one less the number of person visit after Rekha. There is only one person between Gagan and Nirav. The number of persons after Siya is same as before Asha. Deep visits location somewhere before Vaibhav, but not immediately before. Esha visits immediately after Deep.

How many persons visits after Vaibhav?

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

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6. **Directions:** The critical reasoning question is based on a short passage, an argument, a set of statements, or a plan of action. For each question, select the best answer of the choices given and explain why the chosen answer is the right fit. (+1, -0.25)

Passage: Various studies have recently pointed out the importance of mental health, especially peace of mind, for work productivity and efficiency. They have time and again stressed that sound work comes from a sound mind. Company ABC has decided to go ahead and implement mandatory 15-minute meditation for all employees prior to the start of work.

Which of the following assumptions hold?

- a. Meditating for 15 minutes is enough to ensure peace of mind at workplace.

- b. Employees resist mental health practices at workplace and consider it an intrusion on their freedom.
- c. Not a single employee in the company is meditating in their own home.
- d. Employees who work often get tired and complain about it.
- e. Employees who meditate can sleep better than Employees who don't meditate.

7. **Directions:** In the question below, a passage is given followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the passage and the following assumptions and decide which of the assumptions is implicit in the passage. (+1, -0.25)

Passage:

Every minute, more than 500 hours of video are uploaded to YouTube. YouTube has over 2 billion users, almost one-third of all people on the Internet. The First YouTube Video was uploaded in April 2005, featuring its co-founder Jawed Karim at the San Diego Zoo. YouTube is used to watch music videos, comedy shows, how-to guides, recipes, hacks, and more.

Assumptions:

I: YouTube is a platform where people can upload videos about a variety of things.

II: YouTube is a subsidiary of Google.

III: YouTube is used by almost one-third of all people on the Internet.

- a. Only I
- b. Only II

- c. Only III
- d. All except III
- e. All follows

8. Directions: Study the following information carefully and answer the questions given below: (+1, -0.25)

Rising concerns about pollution in major Indian cities have led to a dramatic increase in sales of home air purifiers. The air purifier segment, which was earlier limited to select pockets of top metro cities, is firming its foothold in smaller cities, and online channels are emerging as a key facilitator to meet the consumer demand in such places. "The onset of winters, smog situation in various parts of the country and the current concerns around air normally raise the alarm around deteriorating air quality and indoor air pollution. "An air purifier makes the most sense now, owing to the alarming levels of increasing air pollution in major cities around the country," Eureka Forbes Managing Director and CEO Marzin R. Shroff said.

New Delhi, which has been called the most polluted city in the world by the WHO, is not only the biggest buyer of air purifiers but is also the city that is seeing the fastest growth in sales of these devices.

Which of the following is/are definitely an effect(s) of the rising concern of pollution in the context of the passage?

- a. The highest demand for air purifiers is from Delhi and its nearby states.
- b. Indoor air has been 10 to 30 times more polluted than outside air.
- c. The concern of government towards citizen has increased
- d. The sales of air purifiers has increased up to 200%.

e. Only 1 and 4

9. **Directions:** Study the following information carefully and the questions given below.

(+2, -0.5)

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

The person who is sitting second to the right of B is facing K. L is sitting at one of the corners. C is sitting seventh to the right of D. M is sitting at the table. Neither E nor J is neighbour of B. F and E are facing each other, but F is not a neighbour of D and R. C is third to the right of R. F is second to the left R. W is neither sitting at the corner nor at the boundary. B is sitting at the table. G is sitting fourth to the right of B and second to the right of W. W is facing K. E is not sitting at any corner. A is neither the neighbour of C nor of H but sitting at the boundary. Two persons are sitting between E and J. I is facing the one who is sitting next to the left of B. Three people are sitting between N and the one who is sitting third to the left of G. E is facing F. H is sitting third to the left of the one who is facing W. M is neither facing H nor I. R is neither neighbour of C nor D but sitting at the boundary.

Four of the following are similar somehow and thus forms a group. Which one of the following does not belong to that group?

- a. G
- b. N
- c. H
- d. W

e. J

10. **Directions:** Study the following information carefully and the questions given below. (+2, -0.5)

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

The person who is sitting second to the right of B is facing K. L is sitting at one of the corners. C is sitting seventh to the right of D. M is sitting at the table. Neither E nor J is neighbour of B. F and E are facing each other, but F is not a neighbour of D and R. C is third to the right of R. F is second to the left R. W is neither sitting at the corner nor at the boundary. B is sitting at the table. G is sitting fourth to the right of B and second to the right of W. W is facing K. E is not sitting at any corner. A is neither the neighbour of C nor of H but sitting at the boundary. Two persons are sitting between E and J. I is facing the one who is sitting next to the left of B. Three people are sitting between N and the one who is sitting third to the left of G. E is facing F. H is sitting third to the left of the one who is facing W. M is neither facing H nor I. R is neither neighbour of C nor D but sitting at the boundary.

Which of the following statements is false?

- a. There no one between the person who is facing G and the person who is facing N.
- b. K is sitting third to the one who is facing N.
- c. R is facing L
- d. H and I are neighbouring F

e. None of the above

11. **Directions:** Study the following information carefully and the questions given below.

(+2, -0.5)

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

The person who is sitting second to the right of B is facing K. L is sitting at one of the corners. C is sitting seventh to the right of D. M is sitting at the table. Neither E nor J is neighbour of B. F and E are facing each other, but F is not a neighbour of D and R. C is third to the right of R. F is second to the left R. W is neither sitting at the corner nor at the boundary. B is sitting at the table. G is sitting fourth to the right of B and second to the right of W. W is facing K. E is not sitting at any corner. A is neither the neighbour of C nor of H but sitting at the boundary. Two persons are sitting between E and J. I is facing the one who is sitting next to the left of B. Three people are sitting between N and the one who is sitting third to the left of G. E is facing F. H is sitting third to the left of the one who is facing W. M is neither facing H nor I. R is neither neighbour of C nor D but sitting at the boundary.

Which of the following statements is true?

- a. G is sitting third to the left of the one who is facing C.
- b. B is facing the one who is fourth to the right of R.
- c. K is neighbouring the one who is facing G
- d. There are two persons between N and J.
- e. None of the above

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

(+2, -0.5)

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

The person who is sitting second to the right of B is facing K. L is sitting at one of the corners. C is sitting seventh to the right of D. M is sitting at the table. Neither E nor J is neighbour of B. F and E are facing each other, but F is not a neighbour of D and R. C is third to the right of R. F is second to the left R. W is neither sitting at the corner nor at the boundary. B is sitting at the table. G is sitting fourth to the right of B and second to the right of W. W is facing K. E is not sitting at any corner. A is neither the neighbour of C nor of H but sitting at the boundary. Two persons are sitting between E and J. I is facing the one who is sitting next to the left of B. Three people are sitting between N and the one who is sitting third to the left of G. E is facing F. H is sitting third to the left of the one who is facing W. M is neither facing H nor I. R is neither neighbour of C nor D but sitting at the boundary.

Who is sitting third to the right of the one who is sitting fourth to the left of K?

- a. N
- b. D
- c. H
- d. A
- e. E

13. Direction: Read the following information carefully and answer the question that follow:

(+2, -0.5)

The coding language used to indicate the positions of points is as follows:

P 20@ Q means P is 5 m north to the point Q

P 7\$ Q means P is 22 m east to the point Q

P 30% Q means P is 15 m south to the point Q

P 9& Q means P is 24 m west to the point Q

P 3@ Q means P is 18 m north to the point Q

P 20\$ Q means P is 5 m east to the point Q

P 20* Q means P is 5 m northeast to the point Q

P 7# Q means P is 22 m southwest to the point Q

A 28@B, B 9% C, C 7\$ D, D 26%E, E 18& F, F 11&G, G 24& H.

Which of the following is true?

a. F 5* A

b. C 9@ B

c. A 7\$ B

d. G 12@ D

e. None of the above

14. Directions: Study the following information and answer the questions given.

(+2, -0.5)

The coding language used to denote the relations between 2 persons is as follows:

P @ Q: P is the son of Q

P # Q: P is the father of Q

P \$ Q: P is the mother of Q

P & Q: P is the husband of Q

P % Q: P is the sister of Q

P * Q: P is the daughter of Q

1. H # A # C % B, K & C, K # L, H & G % Z

2. A & D B, M A @ H

How A is related to M?

- a. Mother
- b. Father
- c. Grandmother
- d. Grandfather
- e. Brother

15. **Directions:** Study the following information and answer the questions given. (+2, -0.5)

The coding language used to denote the relations between 2 persons is as follows:

P @ Q: P is the son of Q

P # Q: P is the father of Q

P \$ Q: P is the mother of Q

P & Q: P is the husband of Q

P % Q: P is the sister of Q

P * Q: P is the daughter of Q

1. H # A # C % B, K & C, K # L, H & G % Z

2. A & D B, M A @ H

Which of the following statement are needed to prove N is the daughter of E?

I. C * A, D \$ C % B & E, F & N

II. B # N, B @ A @ G

- a. Data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- b. Data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- c. Data in Statement I alone or in Statement II alone are sufficient to answer the question.
- d. Data in both the Statements I and II together are necessary to answer the question.
- e. Data even in both statements I and II together are not sufficient to answer the question.

16. **Direction:** 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 regarding the problem, policy, etc. Based on 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)

Statement:

In India, thousands of people die due to consumption of toxic alcohol. The government has taken certain steps previously but none of them were effective. Faizal, who has been recently appointed as the officer of narcotics department is given the project to suggest some of the schemes/ advice to stop the consumption of toxic alcohol. After certain research, Faizal found that most of the toxic alcohol contains the XYZ component. The XYZ component is mainly used to build certain types of medicines. The permit of XYZ component is accessible to any small companies.

Course of Actions:

- I. Faizal suggests allowing the usage of XYZ components to only Pharmaceutical companies.
- II. Faizal suggests to publish an order that using XYZ components in alcoholic drinks would be punishable by law.

- a. Only I follows.
- b. Only II follows.
- c. Either I or II follows.
- d. Neither I nor II follows.
- e. Both I and II follow.

17. **Directions:** The question given below consists of a passage, followed by three arguments I, II and III. You have to decide which of the arguments is/are 'strong' arguments and which of the arguments are 'weak' arguments and accordingly choose your answer from the alternatives given below each question. (+1, -0.25)

Passage : The Union Cabinet has cleared the proposal to suspend Insolvency and Bankruptcy Code (IBC) proceedings for bank defaulters for six months with a provision to extend the period for up to one year. This will be applicable for NPAs (non-performing assets) after March 25, 2020. Along with that, there is an exclusion of COVID-19 related debt/defaults from the definition of default under IBC.

Is this a good step from the Government?

Arguments:

I. Yes. The move will offer relief to a lot of companies affected by the COVID-19 crisis.

II. No. This will encourage borrowers to default on their debt obligations and create a bad credit culture in society.

III. No. This will adversely affect loan recoveries of Banks and increase stress on the Banking system.

- a. Only I and II are strong
- b. Only I and III are strong
- c. Only II and III are strong
- d. Only I is strong
- e. All the arguments are strong

18. **Directions:** Read the information given below carefully and answer the questions accordingly: (+1, -0.25)

Seven people – A, B, C, D, E, F, and G live on separate floors of a seven-story building, but not in the same order. The ground floor of the building is numbered 1, the floor above it 2, and so on until the topmost floor is numbered 7. Each person likes different TV channels – Sony, Star, Zee, Mahua, 9XM, Zoom, Zing but not necessarily in the same order. D lives on an even floor and just above the one who likes the Zee channel. E likes the Mahua channel. The one who likes the Zoom channel lives on floor number 2. Person A lives on the floor which is immediately above D and likes the Zing channel. F likes the 9XM channel and lives on 4 numbered floors. G does not like Zee and Zoom channel. G does not live on the bottommost and topmost floor. B lives on an even number floor and immediately above the E's floor. There are three floors between the one who likes Zoom and the one who likes Star.

Which of the following pair is true?

- a. 7th floor – E – Zing
- b. 2th floor – B – Sony
- c. 5th floor – C – Zee
- d. 1th floor – A – Mahua
- e. 3th floor – G – Zee

19. **Directions:** Read the information given below carefully and answer the questions accordingly: (+1, -0.25)

Seven people – A, B, C, D, E, F, and G live on separate floors of a seven-story building, but not in the same order. The ground floor of the building is numbered 1, the floor above it 2, and so on until the topmost floor is

numbered 7. Each person likes different TV channels – Sony, Star, Zee, Mahua, 9XM, Zoom, Zing but not necessarily in the same order. D lives on an even floor and just above the one who likes the Zee channel. E likes the Mahua channel. The one who likes the Zoom channel lives on floor number 2. Person A lives on the floor which is immediately above D and likes the Zing channel. F likes the 9XM channel and lives on 4 numbered floors. G does not like Zee and Zoom channel. G does not live on the bottommost and topmost floor. B lives on an even number floor and immediately above the E's floor. There are three floors between the one who likes Zoom and the one who likes Star.

Who among the following lives on floor no. 6?

- a. G
- b. The one who likes Zee.
- c. The one who likes 9XM.
- d. The one who likes Star.
- e. A

20. **Directions:** Read the information given below carefully and answer the questions accordingly: (+1, -0.25)

Seven people – A, B, C, D, E, F, and G live on separate floors of a seven-story building, but not in the same order. The ground floor of the building is numbered 1, the floor above it 2, and so on until the topmost floor is numbered 7. Each person likes different TV channels – Sony, Star, Zee, Mahua, 9XM, Zoom, Zing but not necessarily in the same order. D lives on an even floor and just above the one who likes the Zee channel. E likes the Mahua channel. The one who likes the Zoom channel lives on floor number 2. Person A lives on the floor which is immediately above D and likes the Zing channel. F likes the 9XM channel and lives on 4 numbered floors. G does not like Zee and Zoom channel. G does not live on the

bottommost and topmost floor. B lives on an even number floor and immediately above the E's floor. There are three floors between the one who likes Zoom and the one who likes Star.

How many persons live between C and the one who likes the Zoom channel?

- a. Five
- b. Two
- c. Three
- d. None
- e. One

21. **Directions:** Read the information given below carefully and answer the questions accordingly: (+1, -0.25)

Seven people – A, B, C, D, E, F, and G live on separate floors of a seven-story building, but not in the same order. The ground floor of the building is numbered 1, the floor above it 2, and so on until the topmost floor is numbered 7. Each person likes different TV channels – Sony, Star, Zee, Mahua, 9XM, Zoom, Zing but not necessarily in the same order. D lives on an even floor and just above the one who likes the Zee channel. E likes the Mahua channel. The one who likes the Zoom channel lives on floor number 2. Person A lives on the floor which is immediately above D and likes the Zing channel. F likes the 9XM channel and lives on 4 numbered floors. G does not like Zee and Zoom channel. G does not live on the bottommost and topmost floor. B lives on an even number floor and immediately above the E's floor. There are three floors between the one who likes Zoom and the one who likes Star.

On which of the following floors does A live?

- a. 7th
- b. 4th
- c. 3th
- d. 1th
- e. Can't be determined

22. **Direction:** Answer the questions based on the information given below: (+1, -0.25)

Ramesh, Suresh, Mahesh, Yogesh, Dipesh and Paresh have different number of bikes. Ramesh has more bikes than Dipesh and Mahesh. Suresh has more bikes than Paresh, who doesn't have fewer bikes than Ramesh. Suresh doesn't have the highest number of bikes.

Who has 3rd highest number of bikes?

- a. Yogesh
- b. Mahesh
- c. Paresh
- d. Dipesh
- e. Ramesh

23. **Directions:** Read the information carefully and answer the given questions. (+1, -0.25)

There are some 12 persons - A, B, C, D, E, F, G, H, I, J, K and L. They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday. B's holiday is on 28th June and there are four Sundays between B and E. The day before 28th June is Saturday. Holiday of E is after B. E is the second last person. A and C have

holiday on the same day. H, L and K have holiday on the same day. Holiday start from 28th june. There is no Sundays between B and D. No one share the holiday with E. The number of Sundays between B and A is same as between E and G. D is not share holiday with F or G. D share his holiday with other two persons but not with J or I. There is gap of one Sunday between F, I and A. There are one Sunday between J and H. H's holiday is after J. No one share holiday with B. G share holiday only with J. There is no holiday on 12th July.

Who has holiday on 2nd August?

- a. E
- b. H
- c. G
- d. J
- e. I

24. Directions: Read the information carefully and answer the given questions. (+1, -0.25)

There are some 12 persons – A, B, C, D, E, F, G, H, I, J, K and L. They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday. B's holiday is on 28th June and there are four Sundays between B and E. The day before 28th June is Saturday. Holiday of E is after B. E is the second last person. A and C have holiday on the same day. H, L and K have holiday on the same day. Holiday start from 28th june. There is no Sundays between B and D. No one share the holiday with E. The number of Sundays between B and A is same as between E and G. D is not share holiday with F or G. D share his holiday with other two persons but not with J or I. There is gap of one Sunday between F, I and A. There are one Sunday between J and H. H's

holiday is after J. No one share holiday with B. G share holiday only with J.
There is no holiday on 12th July.

D share holiday with which of the following persons?

- a. GJ
- b. HK
- c. AC
- d. K
- e. L

25. **Directions:** Read the information carefully and answer the given questions. (+1, -0.25)

There are some 12 persons – A, B, C, D, E, F, G, H, I, J, K and L. They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday. B's holiday is on 28th June and there are four Sundays between B and E. The day before 28th June is Saturday. Holiday of E is after B. E is the second last person. A and C have holiday on the same day. H, L and K have holiday on the same day. Holiday start from 28th june. There is no Sundays between B and D. No one share the holiday with E. The number of Sundays between B and A is same as between E and G. D is not share holiday with F or G. D share his holiday with other two persons but not with J or I. There is gap of one Sunday between F, I and A. There are one Sunday between J and H. H's holiday is after J. No one share holiday with B. G share holiday only with J. There is no holiday on 12th July.

Which of the following month and date combination is true for H?

- a. 11 – August

- b. 9 – August
- c. 10 – July
- d. 20 – August
- e. 27 – July

26. **Directions:** Read the information carefully and answer the given questions.

(+1, -0.25)

There are some 12 persons – A, B, C, D, E, F, G, H, I, J, K and L. They have holidays on different Sundays at least one and at most three person can share the holiday on the same Sunday. B's holiday is on 28th June and there are four Sundays between B and E. The day before 28th June is Saturday. Holiday of E is after B. E is the second last person. A and C have holiday on the same day. H, L and K have holiday on the same day. Holiday start from 28th June. There is no Sunday between B and D. No one share the holiday with E. The number of Sundays between B and A is same as between E and G. D is not share holiday with F or G. D share his holiday with other two persons but not with J or I. There is gap of one Sunday between F, I and A. There are one Sunday between J and H. H's holiday is after J. No one share holiday with B. G share holiday only with J. There is no holiday on 12th July.

How many Sundays are there between G and B?

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

27. **Directions :** The critical reasoning question is based on a short argument, a set of statements, or a plan of action. For each question, select the best answer of the choices given and explain why the chosen answer is the right fit. **(+1, -0.25)**

Statement : Desertification is a type of land degradation in drylands in which biological productivity is lost due to natural processes or induced by human activities whereby fertile areas become increasingly arider. A huge issue that many countries have is the fact that there are large pockets of land that are going through a process that is known as desertification.

Which of the following statements is/are a possible reason for the increasing desertification?

- a. Animal grazing is a huge problem for many areas.
- b. Urbanization is providing fewer places for the plants to grow.
- c. Desertification is reducing the agricultural lands and making them infertile.
- d. Both 1 and 2
- e. None of these

28. **Direction:** Read the given information carefully and answer the questions given below; **(+1, -0.25)**

Eight boxes P, Q, R, S, T, U, V and W of having a different flavour of cake – strawberry, mango, vanilla, pineapple, chocolate, butterscotch, red velvet and caramel, are placed one above another but not necessarily in the same order.

Box W is placed just above the Vanilla flavour box. There are more than three boxes between Pineapple and Vanilla flavour box. There are two

boxes between box S and Q and box S does not have Vanilla flavour cake. There is only one box between box Q and W. There are three boxes between box V and W which is having Chocolate flavour cake. There are two boxes between V and U which is having Red velvet flavour cake. The butterscotch flavour cake box is placed just above V. There are more than three boxes between Caramel and Vanilla flavour box. Pineapple flavour box is not on the Top. There is the same number of boxes between box S and U and between box R and T. Strawberry flavour box is placed above the Mango flavour box. Box T is neither Strawberry nor Butterscotch flavour. Box V is placed above W but W is not placed at the bottom.

How many box/boxes are placed between P and the one who like Red velvet?

- a. Four
- b. Five
- c. One
- d. More than four
- e. Two

Your Personal Exams Guide

29. Direction: Read the given information carefully and answer the questions given below; (+1, -0.25)

Eight boxes P, Q, R, S, T, U, V and W of having a different flavour of cake – strawberry, mango, vanilla, pineapple, chocolate, butterscotch, red velvet and caramel, are placed one above another but not necessarily in the same order.

Box W is placed just above the Vanilla flavour box. There are more than three boxes between Pineapple and Vanilla flavour box. There are two boxes between box S and Q and box S does not have Vanilla flavour cake. There is only one box between box Q and W. There are three boxes

between box V and W which is having Chocolate flavour cake. There are two boxes between V and U which is having Red velvet flavour cake. The butterscotch flavour cake box is placed just above V. There are more than three boxes between Caramel and Vanilla flavour box. Pineapple flavour box is not on the Top. There is the same number of boxes between box S and U and between box R and T. Strawberry flavour box is placed above the Mango flavour box. Box T is neither Strawberry nor Butterscotch flavour. Box V is placed above W but W is not placed at the bottom.

As many box above R as below box ____ ?

a. P

b. R

c. V

d. U

e. Q

30. Direction: Read the given information carefully and answer the questions given below; (+1, -0.25)

Eight boxes P, Q, R, S, T, U, V and W of having a different flavour of cake – strawberry, mango, vanilla, pineapple, chocolate, butterscotch, red velvet and caramel, are placed one above another but not necessarily in the same order.

Box W is placed just above the Vanilla flavour box. There are more than three boxes between Pineapple and Vanilla flavour box. There are two boxes between box S and Q and box S does not have Vanilla flavour cake. There is only one box between box Q and W. There are three boxes between box V and W which is having Chocolate flavour cake. There are two boxes between V and U which is having Red velvet flavour cake. The butterscotch flavour cake box is placed just above V. There are more

than three boxes between Caramel and Vanilla flavour box. Pineapple flavour box is not on the Top. There is the same number of boxes between box S and U and between box R and T. Strawberry flavour box is placed above the Mango flavour box. Box T is neither Strawberry nor Butterscotch flavour. Box V is placed above W but W is not placed at the bottom.

Which of the following box Caramel flavour cake is placed in?

- a. O
- b. P
- c. U
- d. S
- e. W

31. Direction: Read the following information carefully and answer the given question (+1, -0.25)

In a code language

"he arrived fast here" is written as "nm st ow re"

"he like that hat" is written as "bt kx re dq"

"like that black color" is written as "bt ck ld dq"

What is the code for "hat"?

- a. bt
- b. kx
- c. re
- d. dq

e. cannot be determined

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

In a code language

"he arrived fast here" is written as "nm st ow re"

"he like that hat" is written as "bt kx re dq"

"like that black color" is written as "bt ck ld dq"

Which of the following statement can provide the code of "color"?

Statement I: In the coded language, "please come here" is coded as "nm as zh" and "go to market" is coded as "qx vh pu".

Statement II: In the coded language, "he arrived market" is coded as "st vh re" and "not like hat" is coded as "bt kx fn".

Statement III: In the coded language, "everyone like black" is coded as "ya ck bt" and "he is fair" is coded as "lz re rf".

- a. If the data in statement I alone is sufficient to answer the question.
- b. If the data in statement I and statement II together is sufficient to answer the question.
- c. If the data in statement I and statement III together is sufficient to answer the question.
- d. If the data in statement III alone is sufficient to answer the question.
- e. If the data in all the statements I, II and III together are necessary to answer the question.

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

In a code language

"he arrived fast here" is written as "nm st ow re"

"he like that hat" is written as "bt kx re dq"

"like that black color" is written as "bt ck ld dq"

Which of the following statement can provide the code of "fast"?

Statement I: In the coded language, "please come here" is coded as "nm as zh" and "go to market" is coded as "qx vh pu".

Statement II: In the coded language, "he arrived market" is coded as "st vh re" and "not like hat" is coded as "bt kx fn".

Statement III: In the coded language, "everyone like black" is coded as "ya ck bt" and "he is fair" is coded as "lz re rf".

- a. If the data in statement II and statement III together is sufficient to answer the question.
- b. If the data in statement I and statement III together is sufficient to answer the question.
- c. If the data in statement I and statement II together is sufficient to answer the question.
- d. If the data in statement I alone is sufficient to answer the question.
- e. If the data in all the statements I, II and III together are necessary to answer the question.

34. **Direction:** Read the following information carefully and answer the given question. (+2, -0.5)

There are twelve people A, B, C, D, G, F, S, M, Q, W, N and P in a horizontal row. They live in seven houses. Houses are numbered as 1, 2, 3, 4, 5, 6 and 7 from west to east and all the houses are facing north. Minimum 1 person and maximum 3 persons can live in a house.

F lives in house number 2. The number of people living between S and M is equal to the number of people between M and D. There are only four people living to the west of D. S is to the west of M. W is an immediate neighbor of M. G lives to the west of D but not with F. D lives in a prime numbered house. There are six persons between M and Q. Q lives in an even numbered house. P lives alone in an even numbered house. Only one person lives between C and N, who does not live in a house that is at an extreme end. A and B live together in one of the houses between W and Q.

NOTE: If it is said that there are two persons living between A and B then they cannot live with A and B. They can live in a different house or can live together in between A and B.

Who among the following live in house number 5?

- a. A, B
- b. P, A, B
- c. Q, S
- d. N, A, B
- e. C

35. **Direction:** Read the following information carefully and answer the given question. (+2, -0.5)

There are twelve people A, B, C, D, G, F, S, M, Q, W, N and P in a horizontal row. They live in seven houses. Houses are numbered as 1, 2, 3, 4, 5, 6 and 7 from west to east and all the houses are facing north. Minimum 1 person and maximum 3 people can live in a house.

F lives in house number 2. The number of people living between S and M is equal to the number of people between M and D. There are only four people living to the west of D. S is to the west of M. W is an immediate neighbor of M. G lives to the west of D but not with F. D lives in a prime numbered house. There are six people between M and Q. Q lives in an even numbered house. P lives alone in an even numbered house. Only one person lives between C and N, who does not live in a house at an extreme end. A and B live together in one of the houses between W and Q.

NOTE: If it is said that there are two people living between A and B then they cannot live with A and B. They can live in a different house or can live together in between A and B.

How many people live to the west of P?

- a. Five
- b. Six
- c. Four
- d. Seven
- e. Three

36. **Direction:** Read the following information carefully and answer the given question. (+2, -0.5)

There are twelve people A, B, C, D, G, F, S, M, Q, W, N and P in a horizontal row. They live in seven houses. Houses are numbered as 1, 2, 3, 4, 5, 6 and 7

from west to east and all the houses are facing north. Minimum 1 person and maximum 3 person can live in a house.

F lives in house number 2. The number of people live between S and M is equal to the number of people between M and D. There are only four people live to the west of D. S is to the west of M. W is an immediate neighbor of M. G lives to the west of D but not with F. D lives in a prime numbered house. There are six person between M and Q. Q lives in an even numbered house. P lives alone in an even numbered house. Only one person live between C and N, who does not live in house that is at extreme end. A and B live together in one of the house between W and Q.

NOTE: If it is said that there are two person live between A and B then they cannot live with A and B. They can live in different house or can live together in between A and B.

What is true regarding arrangement?

- a. S lives extreme left end
- b. P lives in 2nd numbered house
- c. C lives immediate west of Q
- d. S and W live together
- e. None of the given statement is true.

37. **Direction:** Read the following information carefully and answer the given question. (+2, -0.5)

There are twelve people A, B, C, D, G, F, S, M, Q, W, N and P in a horizontal row. They lives in seven house. Houses are numbered as 1, 2, 3, 4, 5, 6 and 7 from west to east and all the houses are facing north. Minimum 1 person and maximum 3 person can live in a house.

F lives in house number 2. The number of people live between S and M is equal to the number of people between M and D. There are only four people live to the west of D. S is to the west of M. W is an immediate neighbor of M. G lives to the west of D but not with F. D lives in a prime numbered house. There are six person between M and Q. Q lives in an even numbered house. P lives alone in an even numbered house. Only one person live between C and N, who does not live in house that is at extreme end. A and B live together in one of the house between W and Q.

NOTE: If it is said that there are two person live between A and B then they cannot live with A and B. They can live in different house or can live together in between A and B.

How many person live between S and Q?

- a. Four
- b. Five
- c. Six
- d. Seven
- e. More than Seven

38. **Directions:** The question given below consists of a passage, followed by three arguments I, II and III. You have to decide which of the arguments is/are 'strong' arguments and which of the arguments are 'weak' arguments and accordingly choose your answer from the alternatives given below each question. (+2, -0.5)

Passage: Ministry of Railways has invited bids for operating of passenger train services over 109 routes, using 151 modern trains on the existing rail infrastructure. It is the first step ever in the direction of private investment for running passenger trains over the Indian Railways network. An estimated ₹30,000 crore investment is expected, beginning from 2023.

Is this a good step from the Indian Railways?

Arguments:

I. Yes. An Expert Committee under the Chairmanship of Bibek Debroy had recommended the step in 2015.

II. Yes. This will improve the quality of services offered by Railways due to a higher focus on customer satisfaction.

III. No. Losses of Private players in Passenger services will have to be cross-subsidized from freight carriage profits of Indian Railways.

- a. Only I and II are strong
- b. Only II and III are strong
- c. Only I is strong
- d. Only II is strong
- e. All the arguments are strong

39. **Direction:** Statement is given followed by two inferences I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given inferences, if any, follow from the given statement. (+1, -0.25)

Statements:

India's economy is characterised as a developing market economy. According to world ranking, it is 5th by nominal GDP and 3rd by purchasing power parity. At the beginning of 21st century, annual average GDP growth was 6% to 7%, and from 2014 to 2018. GDP growth moderated to 4.8 per cent from 2019-20, amidst a weak environment for global manufacturing, trade and demand. India's GDP growth is expected to be in the range of 6.0 to 6.5 per cent in 2020-21.

Which of the given inferences follows from the given statements?

- a. India is in 5th rank by purchasing power parity.
- b. The annual average GDP of India was 8.1% in 1998.
- c. India's GDP is expected to grow in 2020–21.
- d. India's GDP is down due to global pandemic.
- e. No inference is true.

40. **Directions :** Given below is a passage followed by a question. Select the option that best answers the question. (+1, -0.25)

Country B has reported cases of deaths and ailing patients due to an unrecognized disease. Country B has been engaged in biological warfare with country A for 7 years. Country A had recently developed a dangerous virus, Virus X, causing symptoms of severe flu for a week in the host body, eventually leading to the death of the host. The virus only takes effect after 5 days of dormancy. The virus was deported to country B two days ago by one of their special ops. Which of the following statements casts doubts on Virus X being the cause of deaths in country B?

- a. Country B has poor medical facilities.
- b. The special ops assigned to the job deported the virus 4 days before the scheduled time.
- c. One of the experimental facilities had exploded in country B.
- d. The news of deaths was reported on the day the virus had been deported in country B.
- e. None of these

41. **Directions :** The critical reasoning question is based on a short argument, a set of statements, or a plan of action. For each question, select the best answer of the choices given and explain why the chosen answer is the right fit. (+2, -0.5)

Statement : Employers hire recruitment agencies to find suitable candidates for a particular job profile. Agency recruiters do this by researching the open roles, identifying qualified people, screening the candidates, and providing support to the employer during the selection of the new hire. Recruitment agencies are commonly confused with employment agencies.

Which of the following statements weaken the difference between recruitment agencies and employment agencies?

- I: A Recruitment Agency works from the worksite/employer and an Employment Agency works from the jobseeker.
- II: A Recruitment Agency typically looks for skilled workers to suit the role available whereas an employment agency will search for a job suitable for the candidate according to his resume.
- III: Both recruitment and employment agencies connect the job seekers and the employers
- a. Only I and II
- b. Only II and III
- c. Only III
- d. All of the above
- e. None of the above

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

A word arrangement machine when given an input of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and arrangement (All the numbers are two digits).

INPUT: 31 Except Unique 82 People 47 Doubts 66 Accept 68

STEP 1: Tccepta 31 Except Unique People 47 Doubts 66 68 81

STEP 2: Tccepta Soubtd 31 Except Unique People 47 66 67 81

STEP 3: Tccepta Soubtd Txcepe 31 Unique People 47 65 67 81

STEP 4: Tccepta Soubtd Txcepe Eeopl 31 Unique 48 65 67 81

STEP 5: Tccepta Soubtd Txcepe Eeopl Eniquu 32 48 65 67 81

This is the final arrangement and step 5 is the last step.

As per the rules followed in the given steps, answer the questions given below for the following input.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

What is the position of '78' in the 2nd step from the right?

- a. Second
- b. Third
- c. Seventh
- d. Fifth
- e. Eighth

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

A word arrangement machine when given an input of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and arrangement (All the numbers are two digits).

INPUT: 31 Except Unique 82 People 47 Doubts 66 Accept 68

STEP 1: Tccepta 31 Except Unique People 47 Doubts 66 68 81

STEP 2: Tccepta Soubtd 31 Except Unique People 47 66 67 81

STEP 3: Tccepta Soubtd Txcepe 31 Unique People 47 65 67 81

STEP 4: Tccepta Soubtd Txcepe Eeopl 31 Unique 48 65 67 81

STEP 5: Tccepta Soubtd Txcepe Eeopl Eniquu 32 48 65 67 81

This is the final arrangement and step 5 is the last step.

As per the rules followed in the given steps, answer the questions given below for the following input.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

In the ultimate step, which of the following would be at 6th position from the right?

- a. Soblen
- b. Dnbounu
- c. 38
- d. 42
- e. None of these

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

A word arrangement machine when given an input of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and arrangement (All the numbers are two digits).

INPUT: 31 Except Unique 82 People 47 Doubts 66 Accept 68

STEP 1: Tccepta 31 Except Unique People 47 Doubts 66 68 81

STEP 2: Tccepta Soubtd 31 Except Unique People 47 66 67 81

STEP 3: Tccepta Soubtd Txcepe 31 Unique People 47 65 67 81

STEP 4: Tccepta Soubtd Txcepe Eeoplp 31 Unique 48 65 67 81

STEP 5: Tccepta Soubtd Txcepe Eeoplp Eniquu 32 48 65 67 81

This is the final arrangement and step 5 is the last step.

As per the rules followed in the given steps, answer the questions given below for the following input.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

Which element is exactly in between 'Teighh' and 'Nobles' in the 2nd step?

- a. 52
- b. Unbound
- c. 37
- d. 41
- e. Noderm

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

A word arrangement machine when given an input of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and arrangement (All the numbers are two digits).

INPUT: 31 Except Unique 82 People 47 Doubts 66 Accept 68

STEP 1: Tccepta 31 Except Unique People 47 Doubts 66 68 81

STEP 2: Tccepta Soubtd 31 Except Unique People 47 66 67 81

STEP 3: Tccepta Soubtd Txcepe 31 Unique People 47 65 67 81

STEP 4: Tccepta Soubtd Txcepe Eeopl 31 Unique 48 65 67 81

STEP 5: Tccepta Soubtd Txcepe Eeopl Eniquu 32 48 65 67 81

This is the final arrangement and step 5 is the last step.

As per the rules followed in the given steps, answer the questions given below for the following input.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

What would be the penultimate step of the given input?

- Dccora Teighh Modern Soblen Unbound 37 42 51 78 77
- Dccora Teighh Noderm Soblen Unbound 37 42 51 77 77
- Dccora Teighh Noderm Soblen Unbound 37 42 51 78 77
- Dccora Height Noderm Soblen Unbound 37 42 51 78 77
- Dccora Teighh Noderm Nobles Unbound 37 42 51 78 77

General Awareness

46. What was the theme for Prabashi Bharatiya Diwas (NRI day) 2021? (+1, -0.25)
- a. Redefining engagement with the Indian diaspora
 - b. Contributing to Aatmanirbhar Bharat
 - c. Role of Indian Diaspora in building New India
 - d. Apna Bharat, Aatmanirbhar Bharat
 - e. None of the above.
-
47. Which of the following banks has launched "Signature Visa Debit Card" for the affluent/high net worth individuals maintaining an average quarterly balance of ₹10 lakhs and above? (+1, -0.25)
- a. Axis Bank
 - b. Union Bank of India
 - c. Andhra Bank
 - d. Bank of India
 - e. Oriental Bank of Commerce
-
48. Which country will develop the world's first wooden satellite by 2023. (+1, -0.25)
- a. Japan
 - b. China
 - c. India

- d. Russia
 - e. None of the above
-

49. Which of the following bank has recently launched a digital banking mobile application called "iMOBILE PAY"? (Dec) (+1, -0.25)

- a. Bandhan Bank
 - b. HDFC
 - c. ICICI
 - d. SBI
 - e. None of these
-

50. DakPay is a digital payment service, it aims to transform Banking Experience at the last mile, it is launched by which of the following bank? (+1, -0.25)

- a. ICICI Bank
 - b. Canara Bank
 - c. IndusInd Bank
 - d. India Post Payments Bank
 - e. None of the above
-

51. Who chaired the International Jury of 50th International Film Festival of India? (+1, -0.25)

- a. Zhang Yang

- b.** Lucretia Martel
 - c.** John Bailey
 - d.** Robin Campillo
 - e.** None of the above
-

52. _____ has introduced FX 4 U which allows all its Internet Banking users to deal without hassle with forex transactions. **(+1, -0.25)**

- a.** Central Bank of India
 - b.** Punjab and Sind Bank
 - c.** UCO Bank
 - d.** Canara Bank
 - e.** State Bank of India
-

53. World's largest floating solar project, is to be constructed in which of the following Indian State/UTs? (January 2021) **(+1, -0.25)**

- a.** Daman and Diu
 - b.** Pondicherry
 - c.** Madhya Pradesh
 - d.** Gujarat
 - e.** None of the above
-

54. International Financial Services Centres Authority (IFSCA) (Banking) (+1, -0.25)
Regulations 2020 have been recently approved. Where are the headquarters of IFSCA?

- a. Mumbai
- b. New Delhi
- c. Bangalore
- d. Gandhinagar
- e. Bhopal

55. Which rate is known as overnight loan rate? (+1, -0.25)

- a. Bank rate
- b. Repo rate
- c. Reverse Repo Rate
- d. Marginal Standing Facility Rate
- e. Cash Reserve Ratio (CRR)

56. Payout Links is launched by: (+1, -0.25)

- a. Mobikwik
- b. Phonpe
- c. Paytm
- d. Google Pay

e. None of the above

57. What is Neo banking?

(+1, -0.25)

- a. 100% digital banking
 - b. Only for use of Women
 - c. Part of Cooperative Banking
 - d. Not part of online banking
 - e. None of the above
-

58. In India, where is the largest scooter factory located?

(+1, -0.25)

- a. Tamil Nadu
 - b. Bihar
 - c. Jharkhand
 - d. Assam
 - e. None of the above
-

59. StashFin and SBM Bank India have announced the launch of their co-branded contactless prepaid cards. StashFin is based in which country?

(+1, -0.25)

- a. Indonesia
- b. Laos
- c. Singapore

d. Cambodia

e. Sweden

60. The Union Cabinet has given its approval for Atmanirbhar Bharat Rojgar Yojana. Cabinet has approved an expenditure of how many rupees (in crores) for the entire Scheme period i.e. 2020-2023? **(+1, -0.25)**

a. 16,230

b. 18,310

c. 20,540

d. 22,810

e. 24,090

61. Which city hosted Australia Open 2020? **(+1, -0.25)**

a. Melbourne

b. Sydney

c. Perth

d. Canberra

e. None of the above

62. NBFCs in India are companies that are registered under which of the following Act? **(+1, -0.25)**

a. Companies Act 2013

- b.** RBI Act 1934
 - c.** SEBI Act 2002
 - d.** Government of India Act 1935
 - e.** None of these
-

63. In Dec 2020, who among the following has become India's 67th chess Grandmaster by winning the third and final norm at a tournament in Italy? (+1, -0.25)

- a.** Harsha Bharathakoti
 - b.** Aryan Chopra
 - c.** Nihal Sarin
 - d.** Leon Mendonca
 - e.** Abhimanyu Puranik
-

64. Where is Sri Guru Ram DassJee International Airport situated? (+1, -0.25)

- a.** Ludhiana
 - b.** Chandigarh
 - c.** Patiala
 - d.** Bhatinda
 - e.** Amritsar
-

65. Where is Khelo India Winter Games 2nd edition held? (+1, -0.25)

- a. Srinagar
- b. Anantnag
- c. Ladakh
- d. Gulmarg
- e. None of the above

66. Which bank has started a scheme for women called as Atmanirbhar Women Gold Scheme?(Dec) (+1, -0.25)

- a. BOI
- b. BOB
- c. BOM
- d. Union Bank
- e. SBI

67. Who wrote "Trust Exercise"? (+1, -0.25)

- a. Susan Choi
- b. Chetan Bhagat
- c. William Shakespeare
- d. William Faulkner

e. None of the above

68. Who among the following has written the book titled "Lockdown Liaisons: Leaving and Other Stories"? (+1, -0.25)

- a. Chandrima Das
 - b. Sobhaa De
 - c. Amish Tripathi
 - d. Chetan Bhagat
 - e. Himanshu Goel
-

69. Which country topped in terms of the "total" inflow of new migrants to OECD countries during the year 2018? (+1, -0.25)

- a. India
 - b. China
 - c. Singapore
 - d. Indonesia
 - e. Japan
-

70. SBI has launched the Rupay JCB Card in association with a financial entity that has been based in which of the following countries? (+1, -0.25)

- a. USA
- b. France

- c. Japan
 - d. UAE
 - e. Germany
-

71. What is the youth age limit in Antyodaya Yojana? (+1, -0.25)

- a. 15 years
 - b. 25 years
 - c. 18 years
 - d. 16 years
 - e. 19 years
-

72. The Food Safety and Standards Authority of India has capped the amount of trans fatty acids (TFA) in oils and fats to how much per cent for 2021? (+1, -0.25)

- a. 2
 - b. 3
 - c. 4
 - d. 5
 - e. 6
-

73. What is the name of the Indian-American who has been selected by the NASA in December 2020 among 18 astronauts to be trained for Nasa's (+1, -0.25)

Artemis moon landing program?

- a. Ajay Bhatt
- b. Raja Chari
- c. Uday Singh
- d. Vivek Kundra
- e. V Mohan Reddy

74. Which of the following Municipal corporations in India has signed an MoU with UNDP to create India's first social impact bond? (+1, -0.25)

- a. Pimpri Chinchwad
- b. Jalandhar
- c. Jaipur
- d. Rourkela
- e. Kanpur

75. Who won the ATP tournament 2020? (+1, -0.25)

- a. Rafael Nadal
- b. Daniil Medvedev
- c. Roger Federer
- d. Novak Djokovic
- e. None of the above/More than one of the above

76. The P.M. Rojgar Protsahan Yojana (PMRPY) scheme is targeted for workers earning wages upto Rs _____per month. **(+1, -0.25)**

- a. 15000
- b. 12000
- c. 6000
- d. 20000
- e. None of the above

77. In India, OTT platforms are currently under the purview of _____. **(+1, -0.25)**

- a. Ministry of Information and Broadcasting
- b. Ministry of Electronics and Information Technology.
- c. TRAI
- d. Film and Television Institute of India
- e. None of the above

78. Which ministry has launched Sahakar Cooptube NCDC Channel initiative? **(+1, -0.25)**

- a. Ministry of Agriculture & Farmers
- b. Ministry of Electronics and Information Technology
- c. Ministry of Health and Family Welfare

- d. Ministry of Law and Justice
 - e. Ministry of Planning
-

79. Which bank is the first Urban Co-operative bank that has received an in-principal approval from RBI to become Small Finance Bank? (Jan) **(+1, -0.25)**

- a. Sangli Urban Co-operative Bank
 - b. Bombay Mercantile Co-operative Bank
 - c. Janalaxmi Co-operative Bank
 - d. Akhand Anand Co-Op Bank
 - e. Shivalik Mercantile Co-operative Bank
-

80. With which among the following organisations/entities, SIDBI launched a comprehensive financial education and one-stop knowledge platform for "MSMESaksham"? (Aug) **(+1, -0.25)**

- a. TransUnion CIBIL Limited
 - b. CRIF High Mark Credit Information Services
 - c. Experian
 - d. HDFC Credit Information Services
 - e. Equifax
-

81. Recently, the 40th Indian Scientific Expedition to Antarctica was flagged off from Mormugao Port. This port is located in which state of India? (Jan) **(+1, -0.25)**

- a. Karnataka
- b. Kerala
- c. Goa
- d. Gujarat
- e. Telangana

82. Department of Investment and Public Asset Management (DIPAM) signed an agreement with which of the following International Organizations to get advisory services for asset monetization? **(+1, -0.25)**

- a. World Bank
- b. IMF
- c. AIIB
- d. ADB
- e. UNICEF

83. Who will be the beneficiaries under 'Pradhan Mantri Shram Yogi Maandhan Scheme'? **(+1, -0.25)**

- a. Widows working in organized sector
- b. Grade-D government employees
- c. People working in unorganized sector
- d. People working in organised sector

e. None of the above/ More than one of the above

84. India and which of the following countries have decided to create a special Task-Force to further facilitate investments by its Investment Authority into India? **(+1, -0.25)**

- a. Iran
 - b. UAE
 - c. Qatar
 - d. Oman
 - e. Iraq
-

85. In November 2020, which of the following has tied up with NSDL Payments Bank Limited to offer a range of general insurance products to the bank's customers? **(+1, -0.25)**

- a. ICICI Lombard General Insurance Company Limited
- b. Tata AIG General Insurance Company Limited
- c. HDFC ERGO General Insurance Company
- d. Max Bupa Health Insurance Company Limited
- e. IFFCO Tokio General Insurance Company Limited

English Language

86. Direction: Read the passage given below and answer the following questions.

(+1, -0.25)

India is the seventh-largest country in the world by geographical area which is located at South Asia . Moreover, India is the second populous country and the second country which gets the most frequent rainfalls. Then why is India experiencing a water shortage? Unfortunately, there is an ecological unbalance on a global scale. **India is one of the eight countries which is seriously facing a sharp increase in water crisis that threatens humans, while a huge percentage of the world has no access to sanitation and clean water.** The average person only needs 20 or 30 liters of water, while every Indian uses a big amount of water per day for different purposes than they are supposed to. Additionally, overpopulation and pollution have also been a cause of water poverty in India. Therefore, young children under the age of five make up the 75% of 37.7 million people who are affected by water-borne disease (Khurana 2008). The aim of this project was to create three possible solutions, and finally, the most effective solution is recommended. Thus, several ways to deal with the problem of water shortage in India include harvesting rainwater, watershed management, and river interlinking.

Which is not one of the several ways to deal with water shortage in India?

- a. Rainwater harvesting
- b. River interlinking
- c. Developing farm-based water conservation
- d. Watershed management
- e. None of the above

87. Direction: Read the passage given below and answer the following questions.

(+1, -0.25)

India is the seventh-largest country in the world by geographical area which is located at South Asia . Moreover, India is the second populous country and the second country which gets the most frequent rainfalls. Then why is India experiencing a water shortage? Unfortunately, there is an ecological unbalance on a global scale. **India is one of the eight countries which is seriously facing a sharp increase in water crisis that threatens humans, while a huge percentage of the world has no access to sanitation and clean water.** The average person only needs 20 or 30 liters of water, while every Indian uses a big amount of water per day for different purposes than they are supposed to. Additionally, overpopulation and pollution have also been a cause of water poverty in India. Therefore, young children under the age of five make up the 75% of 37.7 million people who are affected by water-borne disease (Khurana 2008). The aim of this project was to create three possible solutions, and finally, the most effective solution is recommended. Thus, several ways to deal with the problem of water shortage in India include harvesting rainwater, watershed management, and river interlinking.

The line emboldened in the given passage may or may not have an error. If there is an error, find the part that contains the error or choose no error as your answer.

India is one of the eight countries which is seriously (A)/ facing a sharp increase in water crisis that threatens (B)/ humans, while a huge percentage of the world (C)/ has no access to sanitation and clean water. (D)

- a. A
- b. B
- c. C

d. D

e. No error

88. Direction: Read the passage given below and answer the following questions.

(+1, -0.25)

India is the seventh-largest country in the world by geographical area which is located at South Asia . Moreover, India is the second populous country and the second country which gets the most frequent rainfalls. Then why is India experiencing a water shortage? Unfortunately, there is an ecological unbalance on a global scale. **India is one of the eight countries which is seriously facing a sharp increase in water crisis that threatens humans, while a huge percentage of the world has no access to sanitation and clean water.** The average person only needs 20 or 30 liters of water, while every Indian uses a big amount of water per day for different purposes than they are supposed to. Additionally, overpopulation and pollution have also been a cause of water poverty in India. Therefore, young children under the age of five make up the 75% of 37.7 million people who are affected by water-borne disease (Khurana 2008). The aim of this project was to create three possible solutions, and finally, the most effective solution is recommended. Thus, several ways to deal with the problem of water shortage in India include harvesting rainwater, watershed management, and river interlinking.

Which is not one of the causes for water poverty in India?

a. Overconsumption

b. Overpopulation

c. Pollution

d. Overgrazing

e. None of the above

89. Direction: Read the passage given below and answer the following questions.

(+1, -0.25)

India is the seventh-largest country in the world by geographical area which is located at South Asia . Moreover, India is the second populous country and the second country which gets the most frequent rainfalls. Then why is India experiencing a water shortage? Unfortunately, there is an ecological unbalance on a global scale. **India is one of the eight countries which is seriously facing a sharp increase in water crisis that threatens humans, while a huge percentage of the world has no access to sanitation and clean water.** The average person only needs 20 or 30 liters of water, while every Indian uses a big amount of water per day for different purposes than they are supposed to. Additionally, overpopulation and pollution have also been a cause of water poverty in India. Therefore, young children under the age of five make up the 75% of 37.7 million people who are affected by water-borne disease (Khurana 2008). The aim of this project was to create three possible solutions, and finally, the most effective solution is recommended. Thus, several ways to deal with the problem of water shortage in India include harvesting rainwater, watershed management, and river interlinking.

The line emboldened in the given passage may or may not have an error. If there is an error, find the part that contains the error or choose no error as your answer.

India is the seventh-largest (A)/ country in the world by (B)/ geographical area which is (C)/ located at South Asia (D)

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

e. No error

90. Direction: Read the passage given below and answer the following questions. (+1, -0.25)

India's economy could contract 7.7 percent in the financial year that ends on March 31, _____ mainly by the coronavirus pandemic and the weeks-long nationwide lockdown to contain the disease, Chief Economic Advisor Krishnamurthy Subramanian has estimated in the Economic Survey 2020-21, tabled in Parliament on Friday. Real GDP growth could be 11 percent in the next financial year, the survey said. "Agriculture has remained the silver lining, while contact-based services, manufacturing, and construction sectors were the worst hit by the COVID-19 pandemic," said the survey. It predicted a V-shaped economic recovery **spurred** by India's Covid-19 vaccination programme.

The survey sees headline inflation moderating going forward: a development that could open up room for the Reserve Bank of India to resume monetary policy easing to complement fiscal measures to support the economy, said a Bloomberg report.

The Economic Survey, presented in Parliament by the finance minister two days before the Union Budget, analyses the trends in agricultural and industrial production, employment, money supply, and other sectors.

The Union Budget, to be presented by Finance Minister Nirmala Sitharaman on Monday, is expected to increase spending on healthcare, raise levies on a range of imported goods, and likely introduce a Covid-19 cess. "Send me your inputs so that we can see a Budget which is a Budget like never before, in a way. Hundred years of India wouldn't have seen a Budget being made post-pandemic like this," Finance Minister Nirmala Sitharaman told a business summit in December.

Which is sector is expected to have more spending according to Union Budget?

a. Fishing

- b. Agriculture
- c. Healthcare
- d. Manufacturing
- e. None of the above

91. Direction: Read the passage given below and answer the following questions. (+1, -0.25)

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Budget being made post-pandemic like this," Finance Minister Nirmala Sitharaman told a business summit in December.

Choose the option that can complete the given sentence.

India's economy could contract 7.7 percent in the financial year that ends on March 31, _____ mainly by the coronavirus pandemic and the weeks-long nationwide lockdown to contain the disease, Chief Economic Advisor Krishnamurthy Subramanian has estimated in the Economic Survey 2020-21, tabled in Parliament on Friday.

- a. Pulled down
- b. Pulled on
- c. Pulled for
- d. Pulled in
- e. Pulled up

92. Direction: Read the passage given below and answer the following questions. (+1, -0.25)

India's economy could contract 7.7 percent in the financial year that ends on March 31, _____ mainly by the coronavirus pandemic and the weeks-long nationwide lockdown to contain the disease, Chief Economic Advisor Krishnamurthy Subramanian has estimated in the Economic Survey 2020-21, tabled in Parliament on Friday. Real GDP growth could be 11 percent in the next financial year, the survey said.

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Select the word that is close to 'spurred' highlighted in the passage given above.

- a. Disapproved
- b. Backfired
- c. Triggered
- d. Disclosed
- e. None of the above

93. Direction: Read the passage given below and answer the following questions. (+1, -0.25)

According to a report by Greenpeace, 22 out of 30 world's most-polluted cities are in India. As per recommendations, India requires a minimum of 4,000 air monitoring stations to check air quality. Currently, there are

approximately 160 air monitoring stations in India. This implies we have less than 5 percent of the recommended number of air monitoring stations. This inadequacy is a hindrance to policymaking, harming the potential to generate solutions. A base dataset is needed for everything from city planning to new drug development. Air quality monitoring forms the base layer for a number of things, including human health.

Like Peter Drucker said: "If you cannot measure it, you cannot solve it". AI can help solve this problem. Accurate computation of air quality not only requires combining existing air monitoring infrastructure with satellite data but also factoring in human activities such as traffic, construction, garbage burning, industrial source apportionment, and population density. A feature engineered AI can be designed to utilise the above factors to accurately compute a geospatial interpolation of air quality data. The advantage of such an approach is that it provides a distributed coverage of high spatiotemporal resolution in near real time.

In Delhi, the number of air monitoring stations has increased in recent years. This has provided us with research-backed sources of air pollution within a few parts of the capital. By understanding the sources of pollution, AI can be further used to track and predict the growth and reduction of air pollution. For example, we could monitor whether an increase in industrial production is directly proportional to air pollution, or a decrease in vehicles is related to a reduction. These decisions could be evaluated by AI, allowing appropriate actions to be initiated. AI can also help in modelling the chemical reactions between pollutants. Algorithms like Atmospheric Transport Modelling System (ATMoS) helps understand PM_{2.5} concentrations. Additionally, there are advanced algorithms that help in understanding and predicting smog, haze, visibility, and observe meteorological interventions as well as manage air quality better.

What is causing hindrance in policy making to control air pollution?

- a. Lack in satellite data system
- b. Lack in the number of required air monitoring stations

- c. Inaccurate geospatial interpolation
- d. Improper location of air monitoring stations
- e. None of the above

94. Direction: Read the passage given below and answer the following questions.

(+1, -0.25)

According to a report by Greenpeace, 22 out of 30 world's most-polluted cities are in India. As per recommendations, India requires a minimum of 4,000 air monitoring stations to check air quality. Currently, there are approximately 160 air monitoring stations in India. This implies we have less than 5 percent of the recommended number of air monitoring stations. This inadequacy is a hindrance to policymaking, harming the potential to generate solutions. A base dataset is needed for everything from city planning to new drug development. Air quality monitoring forms the base layer for a number of things, including human health. Like Peter Drucker said: "If you cannot measure it, you cannot solve it". AI can help solve this problem. Accurate computation of air quality not only requires combining existing air monitoring infrastructure with satellite data but also factoring in human activities such as traffic, construction, garbage burning, industrial source apportionment, and population density. A feature engineered AI can be designed to utilise the above factors to accurately compute a geospatial interpolation of air quality data. The advantage of such an approach is that it provides a distributed coverage of high spatiotemporal resolution in near real time.

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Which is not one of the human activities that affects accurate computation of air quality?

- a. Traffic
- b. Construction
- c. Industrial location
- d. Garbage burning
- e. Population density

95. Direction: Read the passage given below and answer the following questions.

(+1, -0.25)

According to a report by Greenpeace, 22 out of 30 world's most-polluted cities are in India. As per recommendations, India requires a minimum of 4,000 air monitoring stations to check air quality. Currently, there are approximately 160 air monitoring stations in India. This implies we have less than 5 percent of the recommended number of air monitoring stations. This inadequacy is a hindrance to policymaking, harming the potential to generate solutions. A base dataset is needed for everything from city planning to new drug development. Air quality monitoring forms the base layer for a number of things, including human health. Like Peter Drucker said: "If you cannot measure it, you cannot solve it". AI can help solve this problem. Accurate computation of air quality not only requires combining existing air monitoring infrastructure with satellite data but also factoring in human activities such as traffic, construction, garbage burning, industrial source apportionment, and population

density. A feature engineered AI can be designed to utilise the above factors to accurately compute a geospatial interpolation of air quality data. The advantage of such an approach is that it provides a distributed coverage of high spatiotemporal resolution in near real time.

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What is the advantage of accurately computing a geospatial interpolation of air quality data?

- a. To analyze chemical reaction between pollutants
- b. It provides a distributed coverage of high spatiotemporal resolution in near real time.
- c. It provides a undistributed coverage of high spatiotemporal resolution in near real time.
- d. To understand PM 2.5 concentrations
- e. None of the above

96. Direction: Read the passage given below and answer the following questions.

(+1.5, -0.375)

According to a report by Greenpeace, 22 out of 30 world's most-polluted cities are in India. As per recommendations, India requires a minimum of 4,000 air monitoring stations to check air quality. Currently, there are approximately 160 air monitoring stations in India. This implies we have less than 5 percent of the recommended number of air monitoring stations. This inadequacy is a hindrance to policymaking, harming the potential to generate solutions. A base dataset is needed for everything from city planning to new drug development. Air quality monitoring forms the base layer for a number of things, including human health.

Like Peter Drucker said: "If you cannot measure it, you cannot solve it". AI can help solve this problem. Accurate computation of air quality not only requires combining existing air monitoring infrastructure with satellite data but also factoring in human activities such as traffic, construction, garbage burning, industrial source apportionment, and population density. A feature engineered AI can be designed to utilise the above factors to accurately compute a geospatial interpolation of air quality data. The advantage of such an approach is that it provides a distributed coverage of high spatiotemporal resolution in near real time.

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What is the tone of the passage?

- a. Diplomatic
- b. Apologetic
- c. Dogmatic
- d. Sarcastic
- e. Analytical

97. Read the given passage and choose the correct answer for the questions given below. (+1.5, -0.375)

The impacts of our ever-growing economy have become so ___1___ (stark , clear , opaque) and so widespread that they are by any ___2___ (demented , sane , rough) measure, portents to catastrophe. Whether it's the fact that Antarctic ice is now melting three times faster than we thought or the unfolding "biological ___3___ (destruction , construction , annihilation) " that has already wiped out 50% of all animals and up to 75% of all insects , or the fact that, in spite of all this, we are pumping out CO2 at record levels , it takes willful ignorance or a blinding ideology to deny the severity of the crisis. This creates a terrible paradox: Economic growth keeps economies stable today, but threatens not just future growth but medium-term social and civilizational ___4___ (cohesion , solidarity , confusion) and ultimately the very capacity of this biosphere to sustain life. A paper published in the *Proceedings of the National Academy of Sciences* last year suggested that "the window for effective action is very short, probably two or three decades at most." And that even this dire ___5___ (triumph , prediction , plummet) is considered "conservative" by the authors, "given the increasing trajectories of the drivers of extinction." In terms of practical politics, that means acting immediately, preferably yesterday. Most

politicians deal with this ___6___ (paradox , redux , coarse) by ignoring it. It's by far the easiest option; one afforded every incentive and reward by this political economy and the beliefs that underpin it. This belief system has been dominant for a long time now. We are, as a society, deeply comfortable with it, which means many of its core ___7___ (assumptions , beliefs , dearth) are considered unassailable—too obvious to question. The most profound being this idea that growth is always good.

Choose the correct word/set of words to fill the 1st blank.

- a. stark, clear
- b. opaque
- c. stark, clear, opaque
- d. stark
- e. clear, opaque

98. Read the given passage and choose the correct answer for the questions given below. (+1.5, -0.375)

The impacts of our ever-growing economy have become so ___1___ (stark , clear , opaque) and so widespread that they are by any ___2___ (demented , sane , rough) measure, portents to catastrophe. Whether it's the fact that Antarctic ice is now melting three times faster than we thought or the unfolding "biological ___3___ (destruction , construction , annihilation) " that has already wiped out 50% of all animals and up to 75% of all insects , or the fact that, in spite of all this, we are pumping out CO2 at record levels , it takes willful ignorance or a blinding ideology to deny the severity of the crisis. This creates a terrible paradox: Economic growth keeps economies stable today, but threatens not just future growth but medium-term social and civilizational ___4___ (cohesion ,

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Choose the correct word/set of words to fill the 2nd blank.

- a. demented
- b. demented, sane
- c. rough, demented
- d. sane, rough
- e. sane

99. Read the given passage and choose the correct answer for the questions given below. (+1.5, -0.375)

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Choose the correct word/set of words to fill the 3rd blank.

- a. construction
- b. destruction
- c. destruction, construction, annihilation
- d. annihilation, destruction
- e. construction, annihilation

100. Read the given passage and choose the correct answer for the questions given below.

(+1.5, -0.375)

The impacts of our ever-growing economy have become so ___1___ (stark , clear , opaque) and so widespread that they are by any ___2___ (demented , sane , rough) measure, portents to catastrophe. Whether it's the fact that Antarctic ice is now melting three times faster than we thought or the unfolding "biological ___3___ (destruction , construction , annihilation) " that has already wiped out 50% of all animals and up to 75% of all insects , or the fact that, in spite of all this, we are pumping out CO2 at record levels , it takes willful ignorance or a blinding ideology to deny the severity of the crisis. This creates a terrible paradox: Economic growth keeps economies stable today, but threatens not just future growth but medium-term social and civilizational ___4___ (cohesion , solidarity , confusion) and ultimately the very capacity of this biosphere to sustain life. A paper published in the *Proceedings of the National Academy of Sciences* last year suggested that "the window for effective action is very short, probably two or three decades at most." And that even this dire ___5___ (triumph , prediction , plummet) is considered "conservative" by the authors, "given the increasing trajectories of the drivers of extinction." In terms of practical politics, that means acting immediately, preferably yesterday. Most politicians deal with this ___6___ (paradox , redux , coarse) by ignoring it. It's by far the easiest option; one afforded every incentive and reward by this political economy and the beliefs that underpin it. This belief system has been dominant for a long time now. We are, as a society, deeply comfortable with it, which means many of its core ___7___ (assumptions , beliefs , dearth) are considered unassailable—too obvious to question. The most profound being this idea that growth is always good.

Choose the correct word/set of words to fill the 4th blank.

a. confusion, cohesion

- b. cohesion
- c. solidarity, cohesion
- d. confusion
- e. solidarity

101. Read the given passage and choose the correct answer for the questions given below. (+1.5, -0.375)

The impacts of our ever-growing economy have become so ___1___ (stark , clear , opaque) and so widespread that they are by any ___2___ (demented , sane , rough) measure, portents to catastrophe. Whether it's the fact that Antarctic ice is now melting three times faster than we thought or the unfolding "biological ___3___ (destruction , construction , annihilation) " that has already wiped out 50% of all animals and up to 75% of all insects , or the fact that, in spite of all this, we are pumping out CO2 at record levels , it takes willful ignorance or a blinding ideology to deny the severity of the crisis. This creates a terrible paradox: Economic growth keeps economies stable today, but threatens not just future growth but medium-term social and civilizational ___4___ (cohesion , solidarity , confusion) and ultimately the very capacity of this biosphere to sustain life. A paper published in the *Proceedings of the National Academy of Sciences* last year suggested that "the window for effective action is very short, probably two or three decades at most." And that even this dire ___5___ (triumph , prediction , plummet) is considered "conservative" by the authors, "given the increasing trajectories of the drivers of extinction." In terms of practical politics, that means acting immediately, preferably yesterday. Most politicians deal with this ___6___ (paradox , redux , coarse) by ignoring it. It's by far the easiest option; one afforded every incentive and reward by this political economy and the beliefs that underpin it. This belief system has been dominant for a long time now. We are, as a society, deeply comfortable with it, which means many of its

core___7___(assumptions , beliefs , dearth) are considered unassailable—too obvious to question. The most profound being this idea that growth is always good.

Choose the correct word/set of words to fill the 5th blank.

- a. plummet
- b. prediction
- c. triumph, prediction, plummet
- d. plummet, prediction
- e. triumph

102. Read the given passage and choose the correct answer for the questions given below. (+1.5, -0.375)

The impacts of our ever-growing economy have become so___1___ (stark , clear , opaque) and so widespread that they are by any___2___(demented , sane , rough) measure, portents to catastrophe. Whether it's the fact that Antarctic ice is now melting three times faster than we thought or the unfolding "biological___3___(destruction , construction , annihilation) " that has already wiped out 50% of all animals and up to 75% of all insects , or the fact that, in spite of all this, we are pumping out CO2 at record levels , it takes willful ignorance or a blinding ideology to deny the severity of the crisis. This creates a terrible paradox: Economic growth keeps economies stable today, but threatens not just future growth but medium-term social and civilizational___4___(cohesion , solidarity , confusion) and ultimately the very capacity of this biosphere to sustain life. A paper published in the *Proceedings of the National Academy of Sciences* last year suggested that "the window for effective action is very short, probably two or three decades at most." And that even this dire___5___(triumph , prediction ,

plummet) is considered “conservative” by the authors, “given the increasing trajectories of the drivers of extinction.” In terms of practical politics, that means acting immediately, preferably yesterday. Most politicians deal with this ___6___ (paradox , redux , coarse) by ignoring it. It’s by far the easiest option; one afforded every incentive and reward by this political economy and the beliefs that underpin it. This belief system has been dominant for a long time now. We are, as a society, deeply comfortable with it, which means many of its core ___7___ (assumptions , beliefs , dearth) are considered unassailable—too obvious to question. The most profound being this idea that growth is always good.

Choose the correct word/set of words to fill the 6th blank.

- a. paradox, redux, coarse
- b. coarse
- c. paradox
- d. redux, paradox
- e. coarse, redux

103. Read the given passage and choose the correct answer for the questions given below.

(+1.5, -0.375)

The impacts of our ever-growing economy have become so ___1___ (stark , clear , opaque) and so widespread that they are by any ___2___ (demented , sane , rough) measure, portents to catastrophe. Whether it’s the fact that Antarctic ice is now melting three times faster than we thought or the unfolding “biological ___3___ (destruction , construction , annihilation) ” that has already wiped out 50% of all animals and up to 75% of all insects , or the fact that, in spite of all this, we are pumping out CO₂ at record levels , it takes willful ignorance or a blinding ideology to deny the

severity of the crisis. This creates a terrible paradox: Economic growth keeps economies stable today, but threatens not just future growth but medium-term social and civilizational ___4___ (cohesion , solidarity , confusion) and ultimately the very capacity of this biosphere to sustain life. A paper published in the *Proceedings of the National Academy of Sciences* last year suggested that “the window for effective action is very short, probably two or three decades at most.” And that even this dire ___5___ (triumph , prediction , plummet) is considered “conservative” by the authors, “given the increasing trajectories of the drivers of extinction.” In terms of practical politics, that means acting immediately, preferably yesterday. Most politicians deal with this ___6___ (paradox , redux , coarse) by ignoring it. It’s by far the easiest option; one afforded every incentive and reward by this political economy and the beliefs that underpin it. This belief system has been dominant for a long time now. We are, as a society, deeply comfortable with it, which means many of its core ___7___ (assumptions , beliefs , dearth) are considered unassailable—too obvious to question. The most profound being this idea that growth is always good.

Choose the correct word/set of words to fill the 7th blank.

- a. dearth, beliefs
- b. beliefs
- c. beliefs, assumptions
- d. dearth, assumptions
- e. assumptions, beliefs, dearth

104. Select the phrase/connector from the given three options which can be used to form a single sentence from the two sentences given below, implying the same as expressed in the statement sentence. (+1, -0.25)

Social issues are distinguished from economic issues. Some issues have both social and economic aspects.

1. When some issues
2. However some issues
3. Whenever social issues

- a. Only 1
- b. Only 2
- c. Only 3
- d. Both 2 and 3
- e. Both 1 and 3

105. Select the phrase/connector from the given three options which can be used to form a single sentence from the two sentences given below, implying the same as expressed in the statement sentences. (+1, -0.25)

You should always help others. They are not your friends.

1. If they are
2. Even if they are
3. When you should

- a. only 1
- b. only 2
- c. only 3
- d. both 1 and 2

- e. both 1 and 3

106. Select the phrase/connector from the given three options which can be used to form a single sentence from the two sentences given below, implying the same as expressed in the statement sentence. **(+1, -0.25)**

Varun died. It was an accident.

- 1) as a consequence
- 2) in contrast
- 3) as a result

a. Both 1 and 3

b. Only 2

c. Both 1 and 2

d. Only 3

e. Both 2 and 3

107. Select the phrase/connector from the given three options which can be used to form a single sentence from the two sentences given below, implying the same as expressed in the statement sentence. **(+1, -0.25)**

You can go anywhere. I will follow you.

- 1) whenever
- 2) wherever
- 3) until

a. Only 1

b. Only 2

- c. Both 1 and 2
- d. Both 2 and 3
- e. Both 1 and 3

108. Read the passage and based on it choose one of the given inferences that you draw from it. **(+1, -0.25)**

Television can increase our knowledge of the outside world, there are high-quality programs that help us to understand many fields of study, science, medicine, the arts and so on. Moreover, television benefits very old people, who can't often leave the house as well as patients in hospitals.

What is the tone of the passage?

- a. Positive
- b. Negative
- c. Bellicose
- d. Boastful
- e. Sarcastic

109. Read the passage and based on it choose one of the given inferences that you draw from it. **(+1, -0.25)**

The author says that a sluggish growth in the world economy for the foreseeable future means that India should take a look at its economic policy and consider replacing the premise on which the policies were set. He concludes, by saying that India should increase its public investment in order to meet the growing demands.

What is the tone of the passage?

- a. Incendiary
 - b. Speculative
 - c. Introspective
 - d. Acerbic
 - e. Contentious
-

110. Read the passage and based on it choose one of the given inferences (+1.5, -0.375) that you draw from it.

The author then goes further, by discussing the three questions. What would happen if humans were truly capable of making the universe in the laboratory, 'how we would handle the theological implications and what moral responsibilities would come with fallible humans taking on the role of cosmic creators?' His encounters with physicists and a philosopher help in addressing the three questions.

How could we describe the author's nature?

- a. Enigmatic
 - b. Inquisitive
 - c. Profound
 - d. Subtle
 - e. Perplexing
-

111. Read the passage and based on it choose one of the given inferences that you draw from it. (+1, -0.25)

A chimpanzee is one of the great apes and the nearest in intelligence to man. Scientists have examined its mental capacities and sent it into space in anticipation of man?

Which word best describes chimpanzees?

- a. Uncanny
- b. Imbecile
- c. Insightful
- d. Inept
- e. Asinine

-
112. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

The security guard was very **vigilant** and yet did not see the attack coming.

- a. Forgetful
- b. Naive
- c. Watchful
- d. Negligent
- e. None

113. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

A lot of villages in India still follow the **patriarchal** system.

- a. Matriarchal
- b. Female-dominated
- c. Male-dominated
- d. Democratic
- e. None

-
114. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows, select option 5 as your answer. (+1, -0.25)

The queen was known kingdom-wide for being **generous**.

- a. Narcissistic
- b. Miserly
- c. Magnanimous
- d. Malevolent
- e. None

-
115. The following sentences form a paragraph. The second and the fifth sentence of the paragraph are given. The rest of the sentences are numbered as P, Q, R and S and T. These five parts are not given in their (+1.5, -0.375)

proper order. Read the sentences and choose the alternative that arranges them in correct order.

P. Because a diamond is so hard, getting it ready for use in jewelry is quite a complicated and skillful process.

2. Two of the most interesting things about diamonds are their hardness and their brilliance.

Q. Possession of the famous Koh-i-noor (Mount of Light) was so greatly desired by the rulers of Asia that practically all of the conquests of India from 1400 to 1828 were the result of it.

R. The Hope, an unusually blue diamond weighing about 44 carats, has also passed through many hands and is said to bring misfortune to anyone who possesses it.

5. There are many diamonds that have been so valuable they have actually played a part in history.

S. Diamonds were formed by being 'squeezed together' and according to scientists, this happened about a hundred million years ago.

T. A diamond is actually about five times as hard as the next hardest substance on earth.

Question:-

Which of the following should be the SIXTH sentence after rearrangement?

a. T

b. Q

c. S

d. P

e. R

116. The following sentences form a paragraph. The sentences are numbered as P, Q, R, S and T. These sentences are not given in their proper order. Read the sentences and choose the alternative that arranges them in the correct order. (+1, -0.25)

P- Anorexia is a very serious eating disorder and mental health condition which can be life-threatening if it is not recognised and treated in time, it has a huge negative impact on both the mind and the body.

Q- 'Anorexia nervosa is interchangeable with the term anorexia, which refers to self-starvation and lack of appetite'.

R- Someone who suffers from anorexia struggles to maintain a healthy weight, because of the psychological impact it has on an individual they will experience the extreme need to continuously lose weight,

S- they develop a very negative perception of self-image and can experience extreme anxiety at the fear of gaining weight.

T- The most common age for anorexia to start developing is adolescent years, sadly for some who are anorexic, it becomes a way of life with no endpoint which has resulted in very young deaths as a result of starvation and the body shutting down.

a. TSRQP

b. PQRST

c. PRTQS

d. STRQP

e. RTSPQ

117. Directions: In the sentence, certain words are in bold and numbered from A to E, which are the possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. (+1, -0.25)

The much-discussed and (A) **connected** Electronic Voting Machine in India has (B) **survived** intense scrutiny over its use largely because of one (C) **strong** reason – the fact that this (D) **standalone** single-chip device is not (E) **debated** to any network.

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

118. Directions: In the sentence, certain words are in bold and numbered from A to E, which are the possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. (+1, -0.25)

Finance Minister Nirmala Sitharaman made a (A) **unprecedented** effort to make good use of the lessons (B) **learned** from the (C) **brave** global health crisis and an (D) **ensuing** economic setback to put lives and livelihoods back on (E) **track**.

- a. A-B
- b. A-C
- c. A-D

d. B-E

e. B-D

119. Directions: In the sentence, certain words are in bold and numbered from A to E, which are the possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. (+1, -0.25)

By **(A) declaring** President Win Myint, State Counsellor Aung San Suu Kyi and the rest of the ruling National League for Democracy (NLD) leadership, and **(B) arresting** military rule under a state of **(C) emergency** for at least a year, General Min Aung Hlaing has made it clear that it is the military that is in charge, and he is not particularly **(D) concerned** about the opposition to or **(E) condemnation** of the move.

a. A-B

b. B-C

c. C-D

d. D-E

e. A-E

120. Direction: Read the passage given below and answer the following questions. (+1, -0.25)

India's economy could contract 7.7 percent in the financial year that ends on March 31, _____ mainly by the coronavirus pandemic and the weeks-long nationwide lockdown to contain the disease, Chief Economic Advisor Krishnamurthy Subramanian has estimated in the Economic Survey 2020-21, tabled in Parliament on Friday. Real GDP growth could be 11 percent in the next financial year, the survey said.

"Agriculture has remained the silver lining, while contact-based services, manufacturing, and construction sectors were the worst hit by the COVID-19 pandemic," said the survey. It predicted a V-shaped economic recovery **spurred** by India's Covid-19 vaccination programme.

The survey sees headline inflation moderating going forward: a development that could open up room for the Reserve Bank of India to resume monetary policy easing to complement fiscal measures to support the economy, said a Bloomberg report.

The Economic Survey, presented in Parliament by the finance minister two days before the Union Budget, analyses the trends in agricultural and industrial production, employment, money supply, and other sectors.

The Union Budget, to be presented by Finance Minister Nirmala Sitharaman on Monday, is expected to increase spending on healthcare, raise levies on a range of imported goods, and likely introduce a Covid-19 cess. "Send me your inputs so that we can see a Budget which is a Budget like never before, in a way. Hundred years of India wouldn't have seen a Budget being made post-pandemic like this," Finance Minister Nirmala Sitharaman told a business summit in December.

Which is one of the sectors that is not affected by COVID-19 pandemic according to economic survey?

- a. Contact-based services
- b. Manufacturing
- c. Construction sectors
- d. Agriculture
- e. None of the above

Data Analysis & Interpretation

121. Examine the following pattern of the series carefully and answer the following question. (+1, -0.25)

Example : Find the wrong number in the following series and following the pattern, find the fourth term in the series starting with the wrong number.

32, 34, 36, 39, 40, 42

Here, the pattern of the series is the difference of 2.

Here the wrong number in the series is 39

So, starting with '39' the series will be 39, 41, 43, 45

Therefore, the fourth term is 45.

Similarly, following the above pattern, find the second term in the 2nd series.

9, 19, 58, 229, 1166, 6997

a. 299

b. 409

c. 459

d. 1378

e. 369

122. Examine the following pattern of the series carefully and answer the following question. (+1, -0.25)

Example : Find the wrong number in the following series and following the pattern, find the fourth term in the series starting with the wrong number.

32, 34, 36, 39, 40, 42

Here, the pattern of the series is the difference of 2.

Here the wrong number in the series is 39

So, starting with '39' the series will be 39, 41, 43, 45

Therefore, the fourth term is 45.

Similarly, following the above pattern, find the third term in the 2nd series.

78, 80, 83, 88, 95, 104

a. 109

b. 106

c. 103

d. 112

e. 105

Your Personal Exams Guide

123. Examine the following pattern of the series carefully and answer the following question. (+1, -0.25)

Example : Find the wrong number in the following series and following the pattern, find the fourth term in the series starting with the wrong number.

32, 34, 36, 39, 40, 42

Here, the pattern of the series is the difference of 2.

Here the wrong number in the series is 39

So, starting with '39' the series will be 39, 41, 43, 45

Therefore, the fourth term is 45.

Similarly, following the above pattern, find the fourth term in the 2nd series.

88, 90, 94, 102, 108, 118

- a. 122
- b. 132
- c. 108
- d. 104
- e. 114

124. In the following series, one of the terms given is wrong which is denoted by N. (+1, -0.25)

Series : 85, 175, 355, 715, 1380

Find that term and mark the statement whose value is equivalent to $\frac{N}{30} + 1$ and mark that as your answer.

- a. It is a prime number.
 - b. It is nearest to 40 which is closest multiple of 5.
 - c. Sum of digit is less than 9
 - d. Product of digits is more than 30
 - e. None of these
-

125. In a bag, there are 17 red balls, some green, and some blue balls. The probability of drawing a green ball is $(1/7)^{\text{th}}$ more than that of a red ball. The probability of drawing a blue ball is $(1/21)^{\text{th}}$ more than that of a red ball. (+1, -0.25)

Find the total number of balls in the bag

- a. 91
- b. 84
- c. 63
- d. none of these
- e. cannot be determined

126. In a bag, there are 17 red balls, some green, and some blue balls. The probability of drawing a green ball is $(1/7)^{\text{th}}$ more than that of a red ball. The probability of drawing a blue ball is $(1/21)^{\text{th}}$ more than that of a red ball. (+1, -0.25)

Find the number of blue balls in the bag.

- a. 27
- b. 26
- c. 20
- d. none of these
- e. cannot be determined

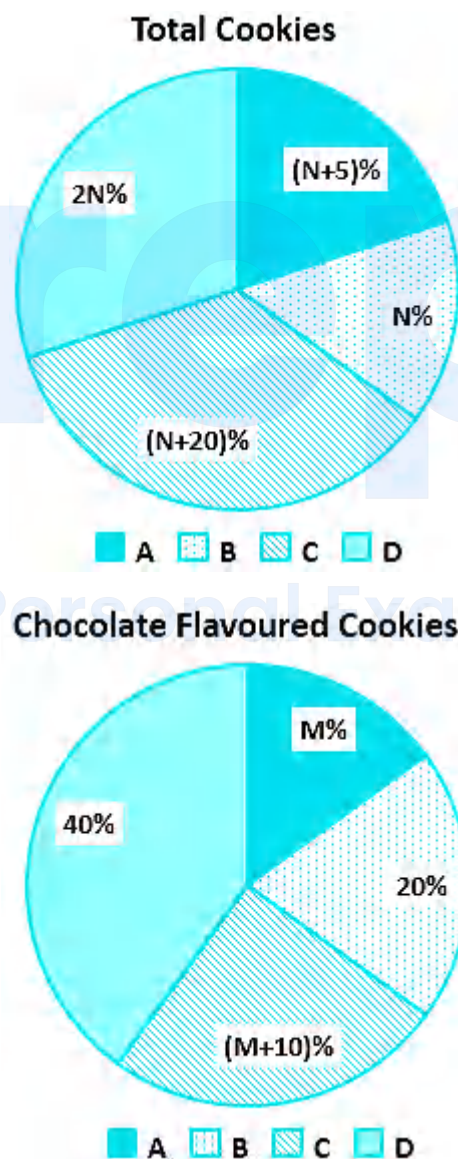
127. **Directions:** Study the chart carefully and the questions that follow.

(+2, -0.5)

The pie charts show the distribution of the total number of cookies sold by companies A, B, C, and D and the distribution of chocolate flavor cookies sold by companies A, B, C, and D respectively. Also, Total Cookies = Chocolate Cookies + Butterscotch flavor cookies.

Number of Butterscotch flavor cookies sold by A = 110

Number of Butterscotch flavor cookies sold by B = 30



What is the ratio of chocolate flavor cookies sold by company C to the total cookies sold by D?

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

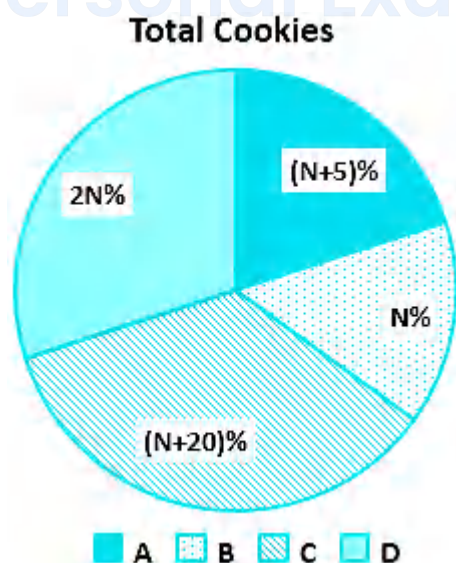
128. **Directions:** Study the chart carefully and the questions that follow.

(+2, -0.5)

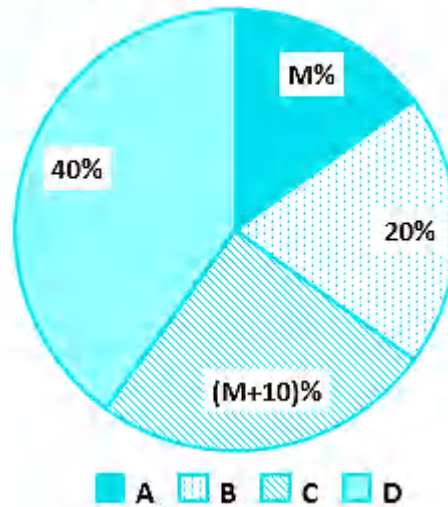
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Number of Butterscotch flavor cookies sold by A = 110

Number of Butterscotch flavor cookies sold by B = 30



Chocolate Flavoured Cookies



Total cookies sold by A and B together is how much percentage more than the butterscotch cookies sold by C?

- a. 25%
- b. 75%
- c. 80%
- d. 65%
- e. None of these

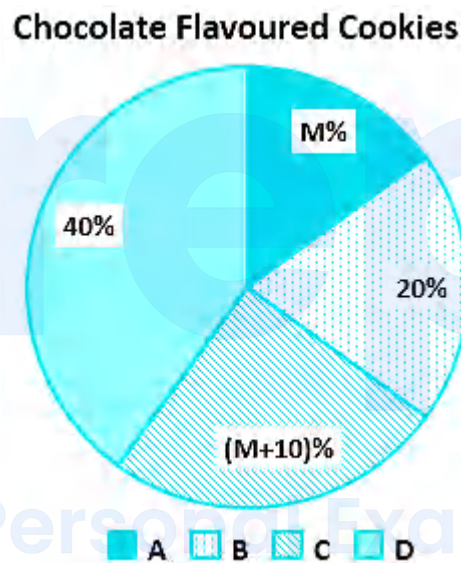
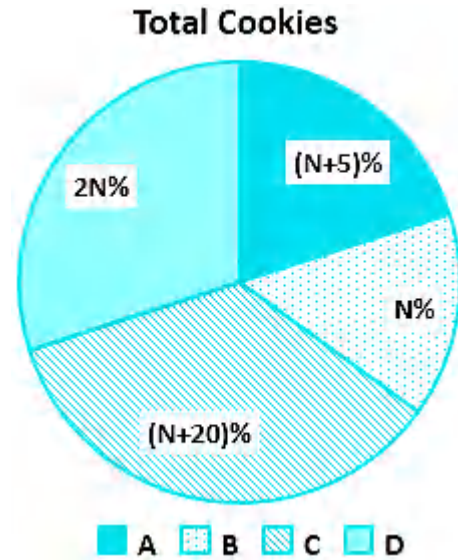
129. **Directions:** Study the chart carefully and the questions that follow.

(+2, -0.5)

The pie charts show the distribution of the total number of cookies sold by companies A, B, C, and D and the distribution of chocolate flavor cookies sold by companies A, B, C, and D respectively. Also, Total Cookies = Chocolate Cookies + Butterscotch flavor cookies.

Number of Butterscotch flavor cookies sold by A = 110

Number of Butterscotch flavor cookies sold by B = 30



If A sold $(x + 15)$ chocolate flavor cookies and B sold $(y - 25)$ chocolate flavor cookies, then what the ratio of $x : y$?

- a. 15 : 31
- b. 31 : 15
- c. 16 : 29
- d. 29 : 16
- e. None of these

130. **Directions:** Study the chart carefully and the questions that follow.

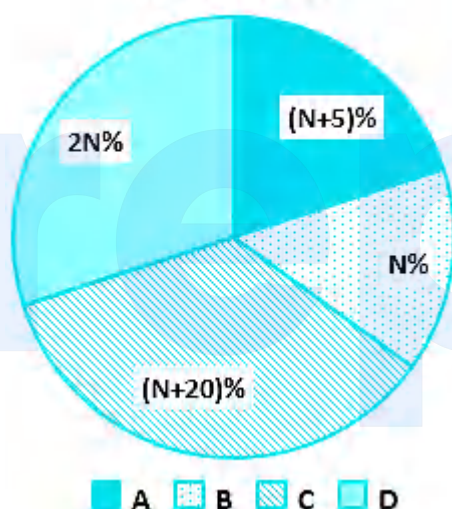
(+2, -0.5)

The pie charts show the distribution of the total number of cookies sold by companies A, B, C, and D and the distribution of chocolate flavor cookies sold by companies A, B, C, and D respectively. Also, Total Cookies = Chocolate Cookies + Butterscotch flavor cookies.

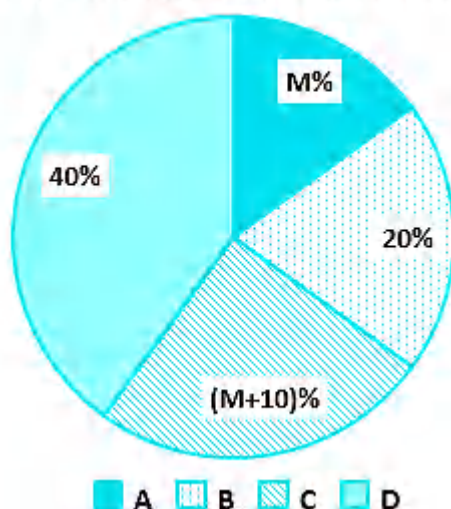
Number of Butterscotch flavor cookies sold by A = 110

Number of Butterscotch flavor cookies sold by B = 30

Total Cookies



Chocolate Flavoured Cookies



The total number of Butterscotch cookies sold by all companies together is approximate how much percentage more or less than the total number of chocolate cookies sold by all the companies together?

- a. 50%
- b. 33.33%
- c. 60%
- d. 30%
- e. None of these

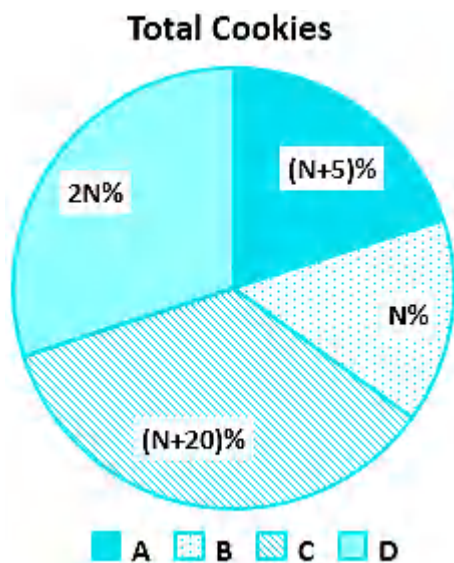
131. **Directions:** Study the chart carefully and the questions that follow.

(+2, -0.5)

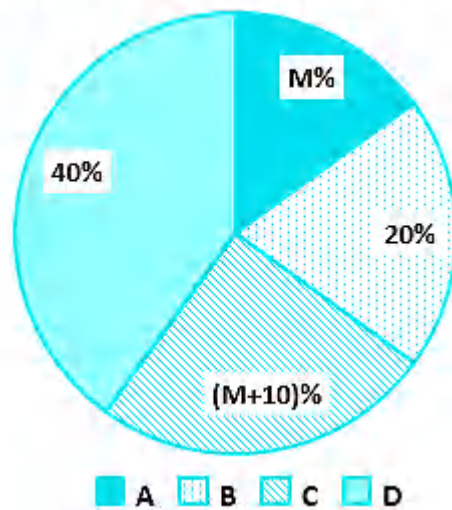
The pie charts show the distribution of the total number of cookies sold by companies A, B, C, and D and the distribution of chocolate flavor cookies sold by companies A, B, C, and D respectively. Also, Total Cookies = Chocolate Cookies + Butterscotch flavor cookies.

Number of Butterscotch flavor cookies sold by A = 110

Number of Butterscotch flavor cookies sold by B = 30



Chocolate Flavoured Cookies



Butterscotch cookies sold by D is approximate what percent of chocolate cookies sold by B and D together?

- a. 6.67%
- b. 6.25%
- c. 8.33%
- d. 16.67%
- e. None of these

132. **Directions:** Read the data carefully and answer the questions that follow: (+2, -0.5)

The following line graph shows the percentage of total employees working as a manager in Alexis Finance Limited, for the time period from the year 2003 to the year 2007.

(**Note** : Total number of employees = Managers + Workers)



The table shows the ratio of the number of male to female managers within the company.

Year	Male : Female
2003	3 : 2
2004	2 : 1
2005	5 : 3
2006	2 : 3
2007	8 : 5

If it is known that the number of employees is the same for all the five years. Then what will be the percentage decrease in the number of male managers from the year 2005 to the year 2006?

- a. 12%

- b. 25%
- c. 42%
- d. 60%
- e. 50%

133. **Directions:** Read the data carefully and answer the questions that follow: (+2, -0.5)

The following line graph shows the percentage of total employees working as a manager in Alexis Finance Limited, for the time period from the year 2003 to the year 2007.

(**Note** : Total number of employees = Managers + Workers)



The table shows the ratio of the number of male to female managers within the company.

Year	Male : Female
2003	3 : 2
2004	2 : 1
2005	5 : 3
2006	2 : 3
2007	8 : 5

If the number of employees working in the company in 2005 is 1000. Also, it is known that the number of male workers is the same as the number of female workers in 2005. Then what is the difference between the number of female workers and the number of female managers in the year 2005?

- a. 400
- b. 200
- c. 100
- d. 300
- e. None of these

134. **Directions:** Read the data carefully and answer the questions that follow: (+2, -0.5)

The following line graph shows the percentage of total employees working as a manager in Alexis Finance Limited, for the time period from the year 2003 to the year 2007.

(**Note** : Total number of employees = Managers + Workers)



The table shows the ratio of the number of male to female managers within the company.

Year	Male : Female
2003	3 : 2
2004	2 : 1
2005	5 : 3
2006	2 : 3
2007	8 : 5

If the number of male managers in the year 2003 is 480, and the number of female managers in the year 2005 is 450. Then find the ratio of the number of employees in the company in 2003 and that in the year 2005.

- a. 3 : 2
- b. 4 : 3
- c. 2 : 3
- d. 3 : 4
- e. None of these

135. **Directions:** Read the data carefully and answer the questions that follow: (+2, -0.5)

The following line graph shows the percentage of total employees working as a manager in Alexis Finance Limited, for the time period from the year 2003 to the year 2007.

(**Note** : Total number of employees = Managers + Workers)



The table shows the ratio of the number of male to female managers within the company.

Year	Male : Female
2003	3 : 2
2004	2 : 1
2005	5 : 3
2006	2 : 3
2007	8 : 5

If the number of workers in the year 2008 is 1400, and the number of total workers in the company has doubled since 2007; then find the number of managers in the company in 2007.

- a. 1500
- b. 1200
- c. 1300
- d. 1000
- e. None of these

136. **Directions:** Read the data carefully and answer the questions that follow: (+2, -0.5)

The following line graph shows the percentage of total employees working as a manager in Alexis Finance Limited, for the time period from the year 2003 to the year 2007.

(**Note** : Total number of employees = Managers + Workers)



The table shows the ratio of the number of male to female managers within the company.

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2006	2 : 3
2007	8 : 5

If the total number of workers remains the same in the year 2005 and the year 2006, then find the ratio between the total number of male managers in these two years.

- a. 32 : 125

- b. 10 : 13
- c. 13 : 10
- d. 25 : 4
- e. None of these

137. **Directions:** Consider the table below and answer the following question. (+2, -0.5)

In the table given below, there are two columns namely A and B.

In column A, Three figures are given with certain information about them.

In column B, certain values are given.

A	B
Figure 1: A cone is mounted over a hemisphere. The volume of the figure is 2156 cm^3	1) Radius = 7 cm
Figure 2: A cylinder is shown with a volume of 1078 cm^3	2) Radius = 14 cm
Figure 3: A hemisphere with its circular part facing upwards.	3) Circumference = 44 cm

The difference of height of the cone and cylinder will be greater than 20 cm when _____, the possible combination from the above table is/are:

- a. 1 - 1, 2 - 2
- b. 1 - 1, 2 - 3

- c. 2 - 1, 1 - 3
- d. Both (1) and (2)
- e. All of the above

138. Directions: Consider the table below and answer the following question. (+2, -0.5)

In the table given below, there are two columns namely A and B.

In column A, Three figures are given with certain information about them.

In column B, certain values are given.

A	B
Figure 1: A cone is mounted over a hemisphere. The volume of the figure is 2156 cm^3	1) Radius = 7 cm
Figure 2: A cylinder is shown with a volume of 1078 cm^3	2) Radius = 14 cm
Figure 3: A hemisphere with its circular part facing upwards .	3) Circumference = 44 cm

For the ratio of the height of figure 1 to figure 2 to be 5 : 1, and radius of hemisphere and height of cylinder are equal. The possible combination from the above table is/are:

- a. 1 - 1, 2 - 2
- b. 2 - 1, 1 - 3

- c. 1 - 2, 2 - 1
- d. 1 - 3, 2 - 2
- e. No combination will give the required result.

139. **Direction:** Following table shows the distribution of data of five villages in terms of literacy. Study the following data and answer the following questions: (+2, -0.5)

Village	Total population	% of literates	% of literate female	% of illiterate male
P	44500	20	45	30
Q	35500	40	25	40
R	30200	30	60	50
S	25750	72	35	45
T	45000	83	55	35

Note: All values that are calculated are rounded off to the nearest whole number.

The government plans to educate the village. And as part of the program decides to educate all the illiterates from villages Q, R, and T at village T. But 45% of the females from villages Q and R together

could not make it to village T. The males who came make what percentage of the total people who attended. (Round off to nearest whole number)

- a. 70%
- b. 64%
- c. 60%
- d. 55%
- e. 72%

140. **Direction:** Following table shows the distribution of data of five villages in terms of literacy. Study the following data and answer the following questions: (+2, -0.5)

Village	Total population	% of literates	% of literate female	% of illiterate male
P	44500	20	45	30
Q	35500	40	25	40
R	30200	30	60	50
S	25750	72	35	45
T	45000	83	55	35

Note: All values that are calculated are rounded off to the nearest whole number.

The number of literate males is what percent more than literate females in village S?

- a. 85%
- b. 85.5%
- c. 85.9%
- d. 85.7%
- e. 89%

141. **Direction:** Following table shows the distribution of data of five villages in terms of literacy. Study the following data and answer the following questions: (+2, -0.5)

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Village	Total population	% of literates	% of literate female	% of illiterate male
P	44500	20	45	30
Q	35500	40	25	40
R	30200	30	60	50
S	25750	72	35	45
T	45000	83	55	35

Note: All values that are calculated are rounded off to the nearest whole number.

If 65% of the literate females from village P decided to work in the 100 days wages scheme of the government. If the wage given to each is Rs. 600. Find the total earnings of the females.

- a. Rs. 15,23,940
- b. Rs. 12,61,430
- c. Rs. 15,61,950
- d. Rs. 15,44,650
- e. Rs. 14,35,350

142. **Direction:** Following table shows the distribution of data of five villages in terms of literacy. Study the following data and answer the following questions: (+2, -0.5)

Village	Total population	% of literates	% of literate female	% of illiterate male
P	44500	20	45	30
Q	35500	40	25	40
R	30200	30	60	50
S	25750	72	35	45
T	45000	83	55	35

Note: All values that are calculated are rounded off to the nearest whole number.

In a survey conducted by the health department, it was found that the literates were more aware of sanitation. So, the government decided to award the literates from village R with the free ration of 3 Kg rice and 2 Kg sugar, in a decision to promote literacy and sanitation in the village. Find the ratio of the total amount of rice got by literate females to the amount of sugar by literate males of village R.

- a. 3 : 2
b. 11 : 5

c. 9 : 4

d. 2 : 5

e. 6 : 7

143. **Direction:** Following table shows the distribution of data of five villages in terms of literacy. Study the following data and answer the following questions: (+2, -0.5)

Village	Total population	% of literates	% of literate female	% of illiterate male
P	44500	20	45	30
Q	35500	40	25	40
R	30200	30	60	50
S	25750	72	35	45
T	45000	83	55	35

Note: All values that are calculated are rounded off to the nearest whole number.

If 25% of illiterates in village Q became literates, find the ratio of percentage of literates to percentage of illiterates in village Q.

a. 7 : 4

b. 11 : 7

c. 11 : 9

d. 11 : 13

e. 13 : 11

- 144.** Directions: The following question is accompanied by three statements (I), (II), and (III). You have to determine which statement(s) is/are sufficient/necessary to answer the questions. (+1, -0.25)

Find the principal amount.

Statement I: The compound interest obtained when a sum is invested at 25% rate for 2 years is Rs. 250 more than the simple interest obtained when the same amount is invested at a 5% rate for 1 year.

Statement II: A sum gets two more than its triple when it is invested at 3.5% rate compounded annually.

Statement III: The difference of amount on a sum invested at 8% rate compounded annually and semi-annually is Rs. 279.

- a. The data in statement I alone is sufficient to answer the question, while the data in statement II and statement III alone are not sufficient to answer the question.
- b. The data in statement II alone is sufficient to answer the question, while the data in statement I and III is not sufficient to answer the question.
- c. The data in statement I alone or in statement II alone is sufficient to answer the question, while the data in statement III alone is not sufficient to answer the question.

- d. The data in all the statements I, II and III is not sufficient to answer the question.
- e. The data in statements I and statement II are sufficient to answer the question, while the data in statement III alone is not sufficient to answer the question.

145. Directions: The following question is accompanied by three statements (I), (II), and (III). You have to determine which statement(s) is/are sufficient/necessary to answer the questions. (+1, -0.25)

A person marks the price of an article as Rs. y . What is the cost price of the article?

Statement I: The marked price of the article is 80% more than its cost price and the person sells it at 2x% discount.

Statement II: The person gains 8% if he sells the article at x% discount and his profit is Rs. $5y$.

Statement III: The person loses 12% on selling the article at a discount of Rs. 217..

- a. The data in statement I and statement II are sufficient to answer the question, while the data in statement III alone is not sufficient to answer the question.
- b. The data in statement II alone is sufficient to answer the question, while the data in statement I and III is not sufficient to answer the question.
- c. The data in statement I alone or in statement II alone or in statement III alone is sufficient to answer the question.
- d. The data in all the statements I, II and III is not sufficient to answer the question.

- e. The data in statements I and statement III are sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

146. In an annual function of class 7th, total of 550 students attended the function. 40% of the attendees are male, out of which, 10% participated in dancing. Out of the total, 33.33% of females participated in dancing. The number of students participating in anchoring is 16.67% of the total number of students who participated in dancing. Find the number of students who participated in anchoring. (+1, -0.25)

- a. 22
b. 27
c. 25
d. 34
e. 29

147. The difference between the age of father and mother is 3 years as father is elder than mother. They married after 3 years and after some time a child is born. The average age of the couple at the time of their son's birth is 35 years. Find the time after which the child is born if the initial age of the father before marriage was 29 years. (+1, -0.25)

- a. 4 years 6 months
b. 5 years
c. 1 year 6 months
d. 3 years

e. 2 years

148. Direction: Study the direction and answer the following questions.

(+2, -0.5)

Train Shatabadi Express of length 180 meters can cross a tree in 12 seconds. Another train August express of length 240 meters crosses the tree at the same time as the train Shatabadi. Both the trains entered a bridge of length 270 meters at the same time moving in opposite directions.

Find out the train which will cross the bridge first and when it crosses the bridge completely then what will be the distance that the other train needs to covers to cross the bridge?

a. Shatabadi, 50 m

b. August, 53 m

c. August, 67.5 m

d. Shatabadi, 67.5 m

e. August, 52 m

149. Direction: Study the direction and answer the following questions.

(+2, -0.5)

Train Shatabadi Express of length 180 meters can cross a tree in 12 seconds. Another train August express of length 240 meters crosses the tree at the same time as the train Shatabadi. Both the trains entered a bridge of length 270 meters at the same time moving in opposite directions.

What will be the time taken by the Shatabadi train to cover a platform of length 0.55 km? If the speed of the Shatabadi train is increased by $33\frac{1}{3}\%$.

- a. 30 sec
- b. 31 sec
- c. 32 sec
- d. 36.5 sec
- e. 37 sec

150. **Direction:** Study the direction and answer the following questions.

(+2, -0.5)

Train Shatabadi Express of length 180 meters can cross a tree in 12 seconds. Another train August express of length 240 meters crosses the tree at the same time as the train Shatabadi. Both the trains entered a bridge of length 270 meters at the same time moving in opposite directions.

Shatabadi train started from city P at 11:00 am and traveled towards city R and after two hours, August started at R and traveled towards P. If the two trains met at 7:00 pm find the time taken by Shatabadi to reach city R after the two trains met each other.

- a. 7 h
- b. 8 h
- c. 9 h
- d. 6 h
- e. 5 h

151. **Direction:** Study the direction and answer the following questions.

(+2, -0.5)

Train Shatabadi Express of length 180 meters can cross a tree in 12 seconds. Another train August express of length 240 meters crosses the tree at the same time as the train Shatabadi. Both the trains entered a bridge of length 270 meters at the same time moving in opposite directions.

What is the time taken by the two trains to cross each other? If the time taken by Shatabadi to cross a tree is 66.67% more and the time taken by August to cross a tree is 150% more.

- a. 24.7
- b. 2.80
- c. 2.90
- d. 3.0
- e. 3.2

152. Direction: Study the direction and answer the following questions.

(+2, -0.5)

Train Shatabadi Express of length 180 meters can cross a tree in 12 seconds. Another train August express of length 240 meters crosses the tree at the same time as the train Shatabadi. Both the trains entered a bridge of length 270 meters at the same time moving in opposite directions.

If S is the normal speed of Shatabdi Express, and A is the normal speed of August Express; then find the value of $4S - 3A$.

- a. 15
- b. 0
- c. 5

d. 10

e. None of these

- 153.** A student goes shopping by bicycle and travels the distance of 10 km to reach the shop in 50 minutes. He buys a cylinder whose volume of 4620 m^3 and also buys a cone. The volume of the cone is $(1/7)$ times the volume of a cylinder and the height of the cone is 10 m. During returning from the shop he takes 10 minutes less time than coming to shop. (+2, -0.5)

How much speed did he increase during returning from the shop?

a. 3 km/hr

b. 2 km/hr

c. 4 km/hr

d. 5 km/hr

e. 1 km/hr

- 154.** A student goes shopping by bicycle and travels the distance of 10 km to reach the shop in 50 minutes. He buys a cylinder whose volume of 4620 m^3 and also buys a cone. The volume of the cone is $(1/7)$ times the volume of a cylinder and the height of the cone is 10 m. During returning from the shop he takes 10 minutes less time than coming to shop. (+2, -0.5)

What is the slant height of a cone?

a. $\sqrt{163}$ m

b. $\sqrt{161}$ m

c. $\sqrt{167}$ m

d. $\sqrt{173}$ m

e. $\sqrt{170}$ m

- 155.** A student goes shopping by bicycle and travels the distance of 10 km to reach the shop in 50 minutes. He buys a cylinder whose volume of 4620 m^3 and also buys a cone. The volume of the cone is $(1/7)$ times the volume of a cylinder and the height of the cone is 10 m. During returning from the shop he takes 10 minutes less time than coming to shop. (+2, -0.5)

What is the curved surface area of cylinder if the height of cylinder is 30 meters?

a. 1310 m^2

b. 1300 m^2

c. 1320 m^2

d. 1340 m^2

e. 1280 m^2

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Answers

1. Answer: a

Explanation:

Given:

Persons: Asha, Pearl, Beena, Kaya, Nirav, Vaibhav, Rekha, Gagan, Tina, Siya, Esha and Deep.

Months : January, March, June, September, November and December.

Conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
- 3) The number of letter in the given name is calculated based on the English alphabetical series.

Now according to the given conditions,

- 1) January (31 days), March (31 days), June (30 days), September (30 days), November (30 days) and December (31 days).
- 2) The number of person between Beena and Pearl is one. Here number of letters in Beena is 5 (odd) therefore Beena visits on June (13 or 18) as starting letter of her name is before M.
- 3) Siya visits immediately after Tina. Tina Visits on 13 December and Siya on 18 December according to the given condition.
- 4) There are two persons visits between Beena and Kaya.

The arrangement is as follows:

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Case 1:				Case 2:
Month	Days	Date	Person	Person
January	31	13		
		18	Kaya	
March	31	13		Kaya
		18		
June	30	13	Beena	
		18		Beena
September	30	13	Pearl	
		18		Pearl
November	30	13		
		18		

December	31	13	Tina	Tina
		18	Siya	Siya

5) The number of persons after Siya is same as before Asha.

6) Esha visits immediately after Deep, this eliminate Case 2.

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Case 1:			
Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	
September	30	13	Pearl
		18	
November	30	13	
		18	

December	31	13	Tina
		18	Siya

7) Number of person visit before Kaya is one less the number of person visit after Rekha.

8) Deep visits location somewhere before Vaibhav, but not immediately before.

9) There is only one person Gagan and Nirav.

The final arrangement is as follows:

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Case 1:			
Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	Gagan
September	30	13	Pearl
		18	Nirav
November	30	13	Vaibhav
		18	Rekha

December	31	13	Tina
		18	Siya

Hence, **Pearl** visit on 13 September.

2. Answer: b

Explanation:

Given:

Persons: Asha, Pearl, Beena, Kaya, Nirav, Vaibhav, Rekha, Gagan, Tina, Siya, Esha and Deep.

Months : January, March, June, September, November and December.

Conditions:

1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.

2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.

3) The number of letter in the given name is calculated based on the English alphabetical series.

Now according to the given conditions,

1) January (31 days), March (31 days), June (30 days), September (30 days), November (30 days) and December (31 days).

2) The number of person between Beena and Pearl is one. Here number of letters in Beena is 5 (odd) therefore Beena visits on June (13 or 18) as starting letter of her name

is before M.

3) Siya visits immediately after Tina. Tina Visits on 13 December and Siya on 18 December according to the given condition.

4) There are two persons visits between Beena and Kaya.

The arrangement is as follows:

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Case 1:				Case 2:
Month	Days	Date	Person	Person
January	31	13		
		18	Kaya	
March	31	13		Kaya
		18		
June	30	13	Beena	
		18		Beena
September	30	13	Pearl	
		18		Pearl
November	30	13		
		18		

December	31	13	Tina	Tina
		18	Siya	Siya

5) The number of persons after Siya is same as before Asha.

6) Esha visits immediately after Deep, this eliminate Case 2.

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Case 1:

Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	
September	30	13	Pearl
		18	
November	30	13	
		18	

December	31	13	Tina
		18	Siya

7) Number of person visit before Kaya is one less the number of person visit after Rekha.

8) Deep visits location somewhere before Vaibhav, but not immediately before.

9) There is only one person Gagan and Nirav.

The final arrangement is as follows:

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Case 1:			
Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	Gagan
September	30	13	Pearl
		18	Nirav
November	30	13	Vaibhav
		18	Rekha

December	31	13	Tina
		18	Siya

Number of person between Deep and Gagan is 2.

Similarly,

There are two persons between Esha and Asha is 2.

Hence, correct answer is Esha and Asha.

3. Answer: a

Explanation:

Given:

Persons: Asha, Pearl, Beena, Kaya, Nirav, Vaibhav, Rekha, Gagan, Tina, Siya, Esha and Deep.

Months : January, March, June, September, November and December.

Conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
- 3) The number of letter in the given name is calculated based on the English alphabetical series.

Now according to the given conditions,

1) January (31 days), March (31 days), June (30 days), September (30 days), November (30 days) and December (31 days).

2) The number of person between Beena and Pearl is one. Here number of letters in Beena is 5 (odd) therefore Beena visits on June (13 or 18) as starting letter of her name is before M.

3) Siya visits immediately after Tina. Tina Visits on 13 December and Siya on 18 December according to the given condition.

4) There are two persons visits between Beena and Kaya.

The arrangement is as follows:

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Case 1:				Case 2:
Month	Days	Date	Person	Person
January	31	13		
		18	Kaya	
March	31	13		Kaya
		18		
June	30	13	Beena	
		18		Beena
September	30	13	Pearl	
		18		Pearl
November	30	13		
		18		

December	31	13	Tina	Tina
		18	Siya	Siya

5) The number of persons after Siya is same as before Asha.

6) Esha visits immediately after Deep, this eliminate Case 2.

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Case 1:

Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	
September	30	13	Pearl
		18	
November	30	13	
		18	

December	31	13	Tina
		18	Siya

7) Number of person visit before Kaya is one less the number of person visit after Rekha.

8) Deep visits location somewhere before Vaibhav, but not immediately before.

9) There is only one person Gagan and Nirav.

The final arrangement is as follows:

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Case 1:			
Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	Gagan
September	30	13	Pearl
		18	Nirav
November	30	13	Vaibhav
		18	Rekha

December	31	13	Tina
		18	Siya

Hence, **Siya** visit location at last.

4. Answer: c

Explanation:

Given:

Persons: Asha, Pearl, Beena, Kaya, Nirav, Vaibhav, Rekha, Gagan, Tina, Siya, Esha and Deep.

Months : January, March, June, September, November and December.

Conditions:

1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.

2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.

3) The number of letter in the given name is calculated based on the English alphabetical series.

Now according to the given conditions,

1) January (31 days), March (31 days), June (30 days), September (30 days), November (30 days) and December (31 days).

2) The number of person between Beena and Pearl is one. Here number of letters in Beena is 5 (odd) therefore Beena visits on June (13 or 18) as starting letter of her name

is before M.

3) Siya visits immediately after Tina. Tina Visits on 13 December and Siya on 18 December according to the given condition.

4) There are two persons visits between Beena and Kaya.

The arrangement is as follows:

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Case 1:				Case 2:
Month	Days	Date	Person	Person
January	31	13		
		18	Kaya	
March	31	13		Kaya
		18		
June	30	13	Beena	
		18		Beena
September	30	13	Pearl	
		18		Pearl
November	30	13		
		18		

December	31	13	Tina	Tina
		18	Siya	Siya

5) The number of persons after Siya is same as before Asha.

6) Esha visits immediately after Deep, this eliminate Case 2.

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Case 1:

Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	
September	30	13	Pearl
		18	
November	30	13	
		18	

December	31	13	Tina
		18	Siya

7) Number of person visit before Kaya is one less the number of person visit after Rekha.

8) Deep visits location somewhere before Vaibhav, but not immediately before.

9) There is only one person Gagan and Nirav.

The final arrangement is as follows:

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Case 1:			
Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	Gagan
September	30	13	Pearl
		18	Nirav
November	30	13	Vaibhav
		18	Rekha

December	31	13	Tina
		18	Siya

I. Nirav visit the location immediately after Pearl. – True

II. Kaya visit the location after Asha. – True

III. one person visits after Siya. – False

Hence, **Only III** is not true.

5. Answer: c

Explanation:

Given:

Persons: Asha, Pearl, Beena, Kaya, Nirav, Vaibhav, Rekha, Gagan, Tina, Siya, Esha and Deep.

Months : January, March, June, September, November and December.

Conditions:

- 1) Person have starting letter of their name before letter 'M' visit location in first three month of January to June. Person have starting letter of their name after letter 'M' visit location in last three months of July to December.
- 2) Person having even number of letters, visit the location in the month having odd number of day (31 days) and person having odd number of letter in their name visit location in the month having even number of days (30) in the month.
- 3) The number of letter in the given name is calculated based on the English alphabetical series.

Now according to the given conditions,

1) January (31 days), March (31 days), June (30 days), September (30 days), November (30 days) and December (31 days).

2) The number of person between Beena and Pearl is one. Here number of letters in Beena is 5 (odd) therefore Beena visits on June (13 or 18) as starting letter of her name is before M.

3) Siya visits immediately after Tina. Tina Visits on 13 December and Siya on 18 December according to the given condition.

4) There are two persons visits between Beena and Kaya.

The arrangement is as follows:

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Case 1:				Case 2:
Month	Days	Date	Person	Person
January	31	13		
		18	Kaya	
March	31	13		Kaya
		18		
June	30	13	Beena	
		18		Beena
September	30	13	Pearl	
		18		Pearl
November	30	13		
		18		

December	31	13	Tina	Tina
		18	Siya	Siya

5) The number of persons after Siya is same as before Asha.

6) Esha visits immediately after Deep, this eliminate Case 2.



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Case 1:

Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	
September	30	13	Pearl
		18	
November	30	13	
		18	

December	31	13	Tina
		18	Siya

7) Number of person visit before Kaya is one less the number of person visit after Rekha.

8) Deep visits location somewhere before Vaibhav, but not immediately before.

9) There is only one person Gagan and Nirav.

The final arrangement is as follows:

prepp

Your Personal Exams Guide

Case 1:			
Month	Days	Date	Persons
January	31	13	Asha
		18	Kaya
March	31	13	Deep
		18	Esha
June	30	13	Beena
		18	Gagan
September	30	13	Pearl
		18	Nirav
November	30	13	Vaibhav
		18	Rekha

December	31	13	Tina
		18	Siya

Hence, **three** persons visit after Vaibhav.

6. Answer: a

Explanation:

Option 1 is a valid assumption. The company is trying out 15-minute meditation prior to work since it feels that it can help employees achieve peace of mind at the workplace.

Option 2 is invalid. If the company feels that employees resist mental health practices at the workplace and consider it an intrusion on their freedom, it will not implement them. Also, it is not related to our question which is the correlation between meditation and peace of mind.

Option 3 is invalid. Employees may or may not be meditating at home but the company feels they have to implement it at the workplace in order to ensure peace of mind at the workplace. As such, the private life of employees is beyond the scope of our passage.

Option 4 is not related to our question which is the correlation between meditation and peace of mind. It is about tiredness from work, which is beyond the scope of our passage.

Option 5 is invalid. As such, the private life of employees and their sleep is beyond the scope of our passage and not the main problem here.

So, only Option 1 is a valid assumption.

7. Answer: a

Explanation:

The passage above tells us about the popularity of YouTube and its history as well. From the last line of the passage, we can assume that YouTube is a platform where 'people' can upload videos about a variety of things.

Hence, assumption I is implicit.

The information provided by the passage is not sufficient enough for us to assume that YouTube is a subsidiary of Google.

Hence, assumption II is not implicit.

The third option is not an assumption as it is a restatement of the fact which is already mentioned in the second line of the passage.

Hence, it cannot be an implicit assumption.

8. Answer: a

Explanation:

Option 1 is the correct answer. It can be concluded from the given premise that the increase in the level of pollution in the city makes the people aware to buy something which can dampen its effect so people are buying air purifiers. Also, air pollution in Delhi or any city will naturally have some impact on its neighbouring areas.

Option 2 is invalid as the passage does not compare the quality of indoor and outdoor air.

Option 3 is eliminated because no opinion of the government is mentioned in the above passage.

Option 4 is eliminated because the number or percentage of sales of air purifiers is not mentioned in the passage.

Hence, Option 1 is the correct answer.

9. Answer: c

Explanation:

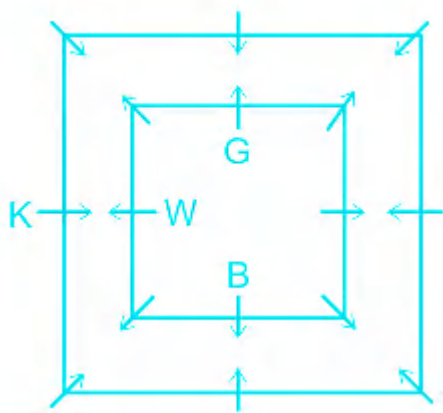
Given:

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

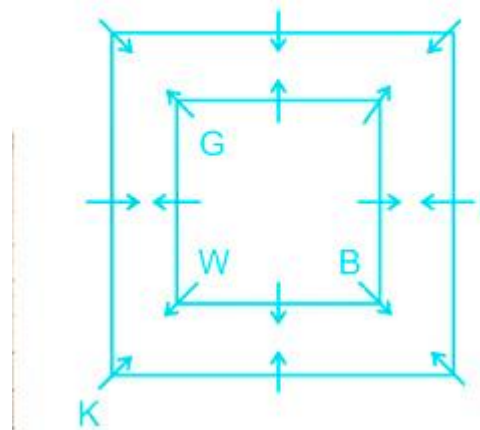
People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

1. B is sitting at the table.
2. The person who is sitting second to the right of B is facing K.
3. I is facing the one who is sitting next to the left of B.
4. G is sitting fourth to the right of B and second to the right of W.

Case 1

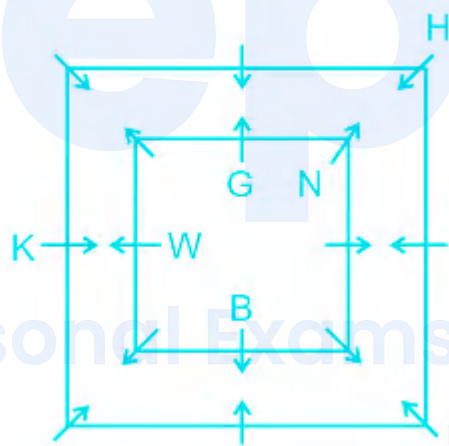


Case 2

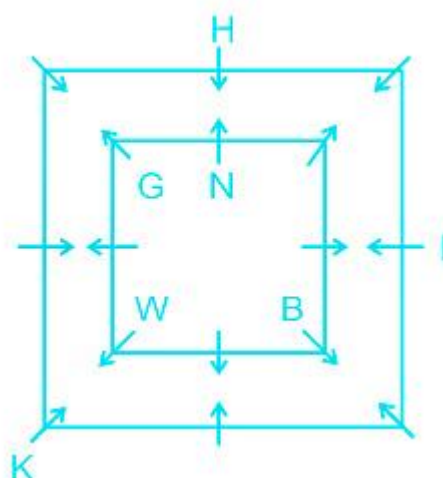


5. Three people are sitting between N and the one who is sitting third to the left of G.
6. H is sitting third to the left of the one who is facing W.

Case 1



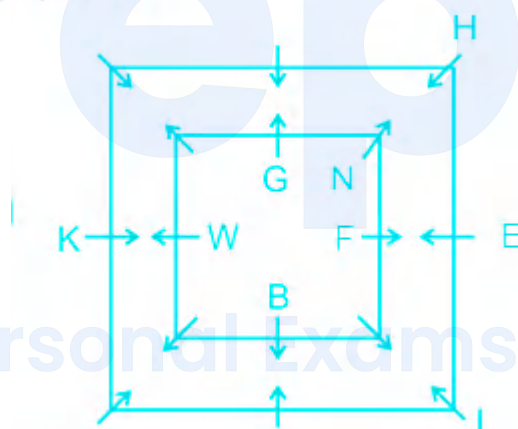
Case 2



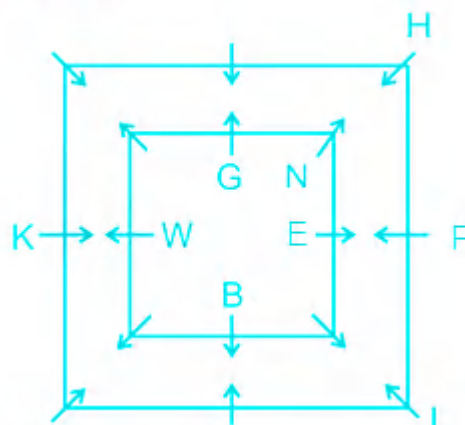
7. F and E are facing each other, but F is not a neighbour of D and R.

8. E is not sitting at any corner.

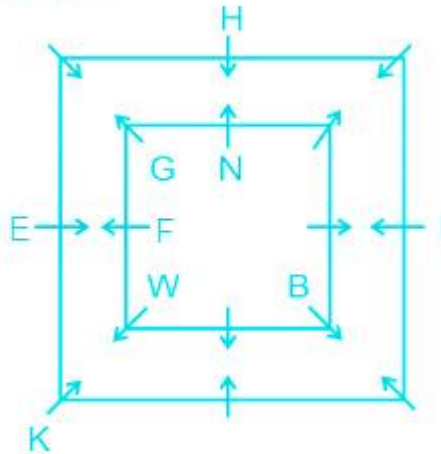
Case 1(a)



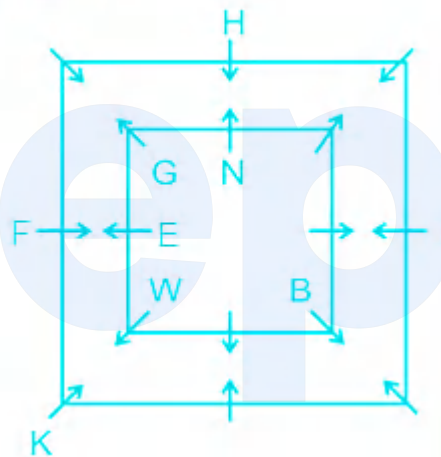
Case 1(b)



Case 2(a)



Case 2(b)

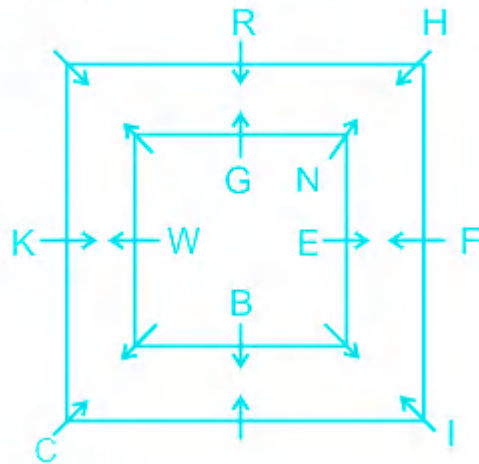


9. F is second to the left R.

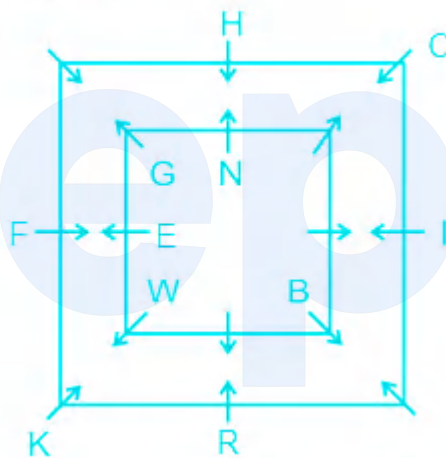
10. C is third to the right of R.

Here, cases 1(a) and 2(a) will be cancelled out as in those cases there is not any appropriate space left for R.

Case 1(b)



Case 2(b)



11. C is sitting seventh to the right of D.

12. Neither E nor J is neighbour of B

13. Two persons are sitting between E and J.

14. A is neither the neighbour of C nor of H but sitting at the boundary.

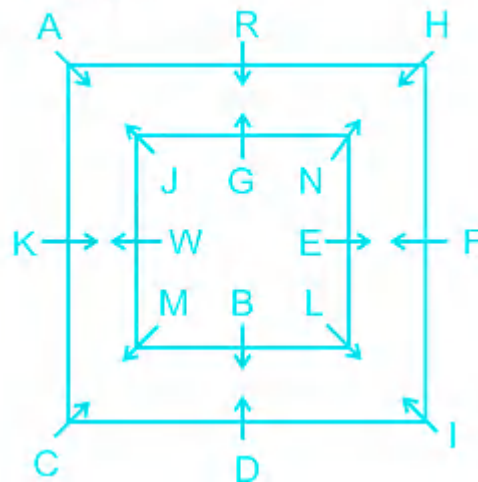
15. M is neither facing H nor I.

16. L is sitting at one of the corners.

Here, case 2(b) will be cancelled out as there is not any appropriate place left for D.

So, the final arrangement would be:

Case 1(b)



Here, G, N, W and J are sitting on the table while H is sitting on the boundary.

Hence, H does not belong to the group.

10. Answer: c

Explanation:

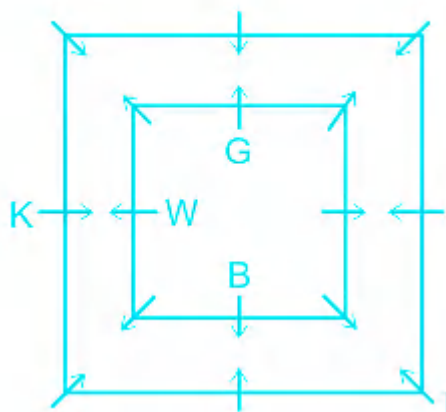
Given:

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

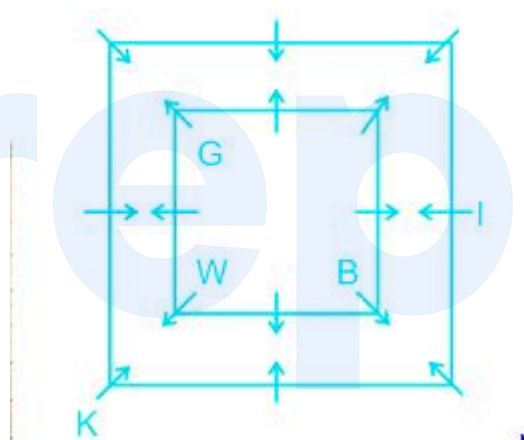
People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

1. B is sitting at the table.
2. The person who is sitting second to the right of B is facing K.
3. I is facing the one who is sitting next to the left of B.
4. G is sitting fourth to the right of B and second to the right of W.

Case 1

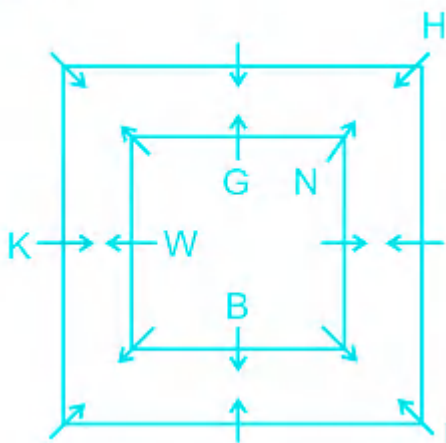


Case 2

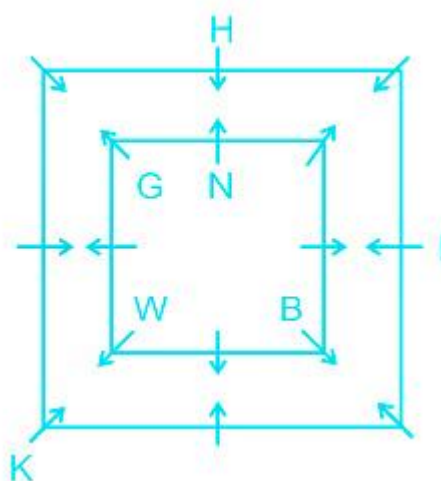


5. Three people are sitting between N and the one who is sitting third to the left of G.
6. H is sitting third to the left of the one who is facing W.

Case 1



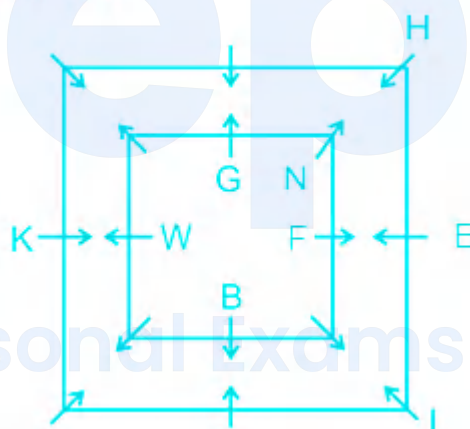
Case 2



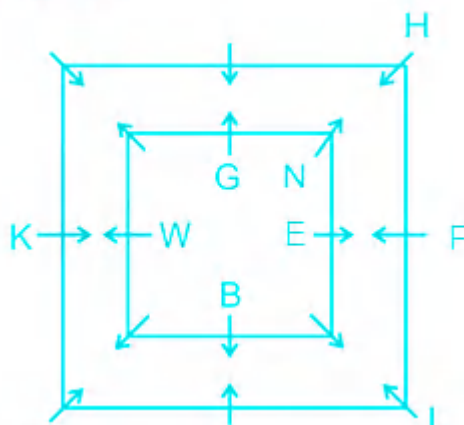
7. F and E are facing each other, but F is not a neighbour of D and R.

8. E is not sitting at any corner.

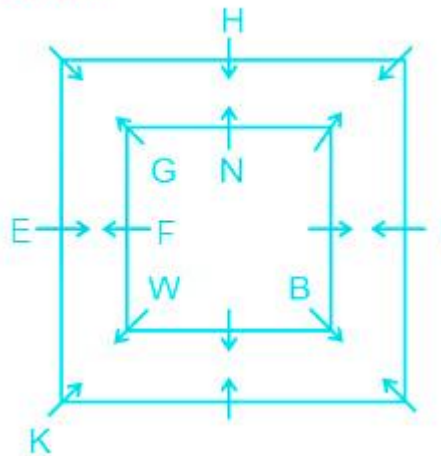
Case 1(a)



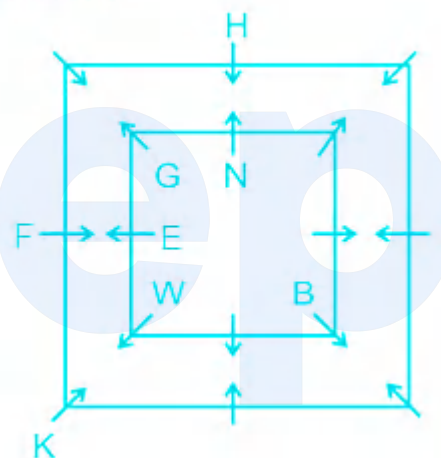
Case 1(b)



Case 2(a)



Case 2(b)

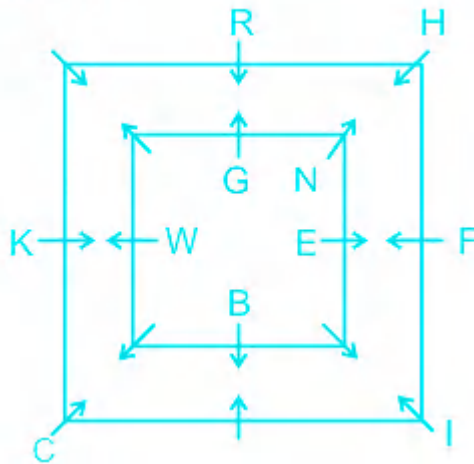


9. F is second to the left R.

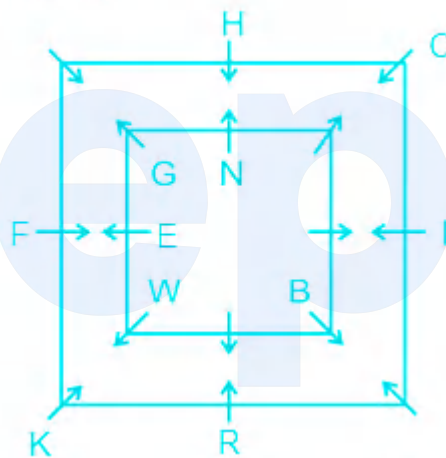
10. C is third to the right of R.

Here, cases 1(a) and 2(a) will be cancelled out as in those cases there is not any appropriate space left for R.

Case 1(b)

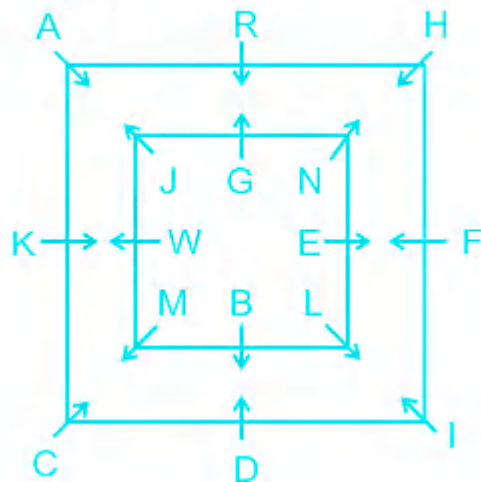


Case 2(b)



11. C is sitting seventh to the right of D.
 12. Neither E nor J is neighbour of B
 13. Two persons are sitting between E and J.
 14. A is neither the neighbour of C nor of H but sitting at the boundary.
 15. M is neither facing H nor I.
 16. L is sitting at one of the corners.
- Here, case 2(b) will be cancelled out as there is not any appropriate place left for D.
- So, the final arrangement would be:

Case 1(b)



Hence, **R is facing L** is the false statement.

11. Answer: b

Explanation:

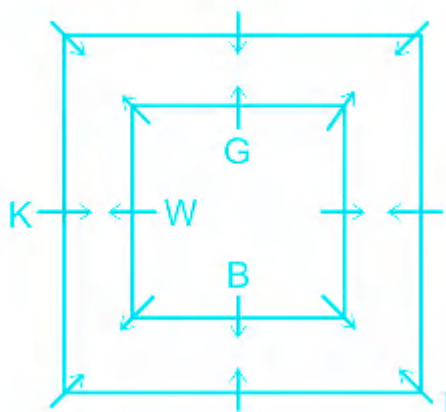
Given:

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

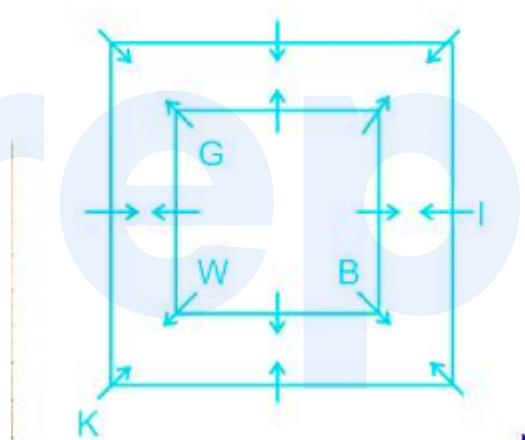
People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

1. B is sitting at the table.
2. The person who is sitting second to the right of B is facing K.
3. I is facing the one who is sitting next to the left of B.
4. G is sitting fourth to the right of B and second to the right of W.

Case 1

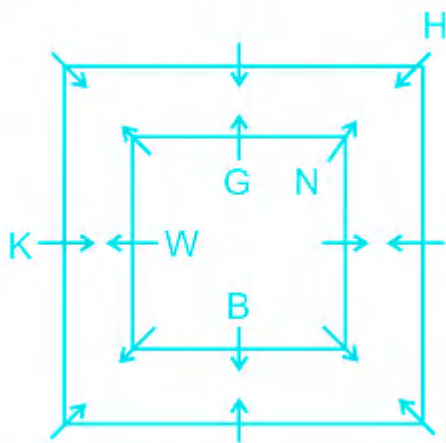


Case 2

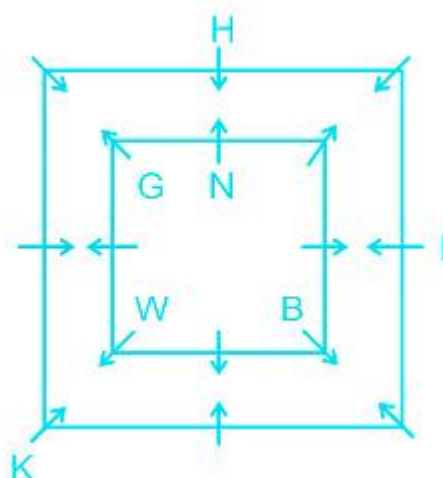


5. Three people are sitting between N and the one who is sitting third to the left of G.
6. H is sitting third to the left of the one who is facing W.

Case 1



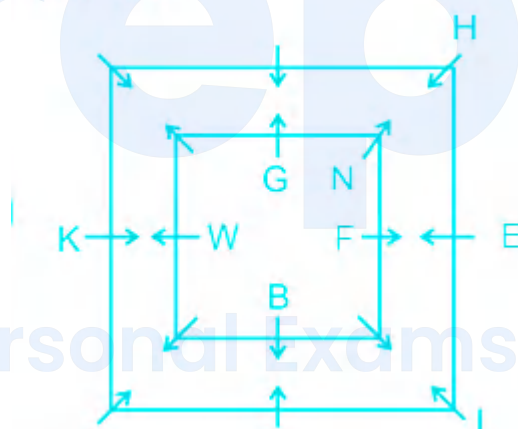
Case 2



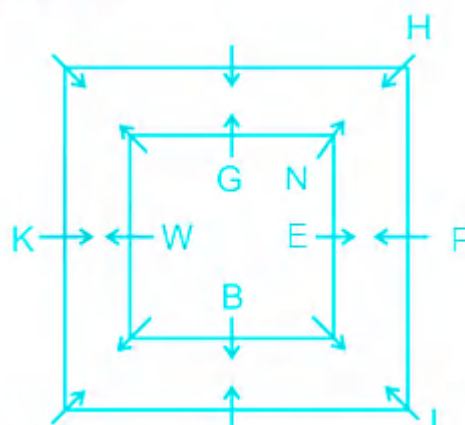
7. F and E are facing each other, but F is not a neighbour of D and R.

8. E is not sitting at any corner.

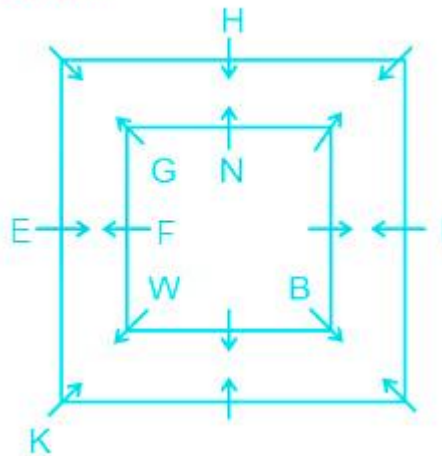
Case 1(a)



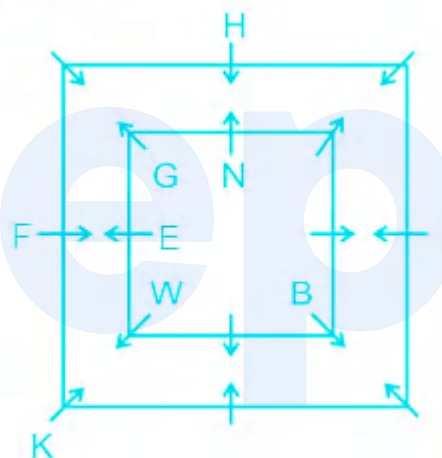
Case 1(b)



Case 2(a)



Case 2(b)

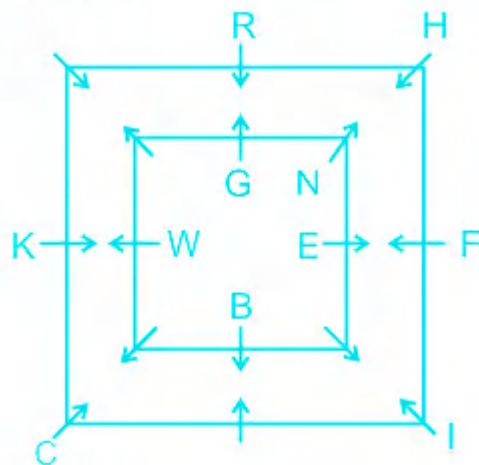


9. F is second to the left R.

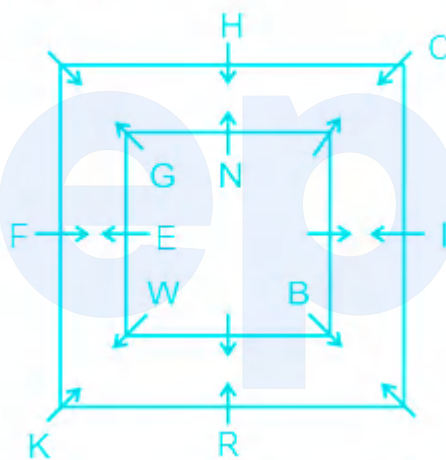
10. C is third to the right of R.

Here, cases 1(a) and 2(a) will be cancelled out as in those cases there is not any appropriate space left for R.

Case 1(b)



Case 2(b)



11. C is sitting seventh to the right of D.

12. Neither E nor J is neighbour of B

13. Two persons are sitting between E and J.

14. A is neither the neighbour of C nor of H but sitting at the boundary.

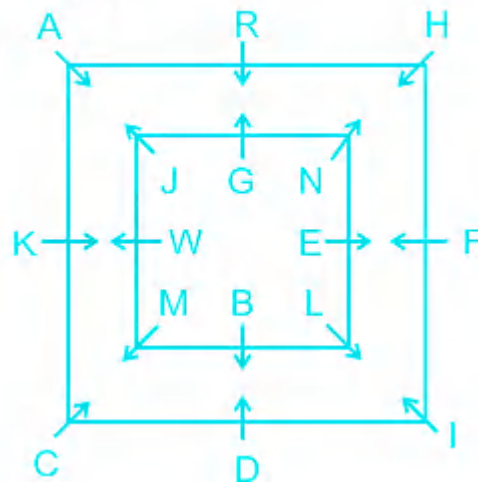
15. M is neither facing H nor I.

16. L is sitting at one of the corners.

Here, case 2(b) will be cancelled out as there is not any appropriate place left for D.

So, the final arrangement would be:

Case 1(b)



Hence, **B is facing the one who is fourth to the right of R** is the true statement.

12. Answer: d

Explanation:

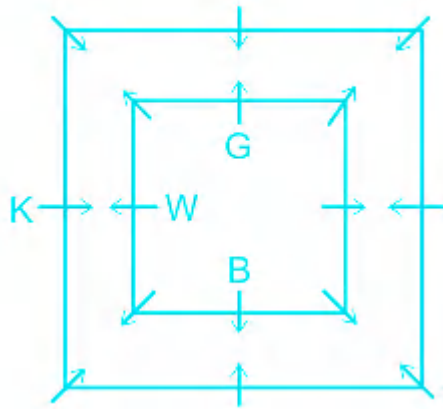
Given:

Eight people are sitting around a square table, four at the corners and four the middle of the sides. At a distance of 6 m, there is a boundary of the at all four sides. At that boundary, eight people are sitting there, four at the corners while four at the middle of the sides.

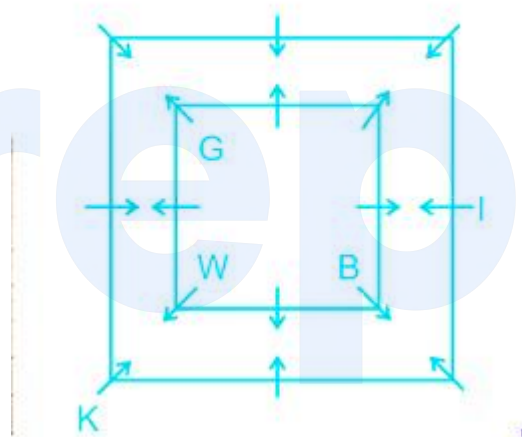
People sitting at the table are facing away from the centre while people sitting at the boundary are facing towards the centre.

1. B is sitting at the table.
2. The person who is sitting second to the right of B is facing K.
3. I is facing the one who is sitting next to the left of B.
4. G is sitting fourth to the right of B and second to the right of W.

Case 1

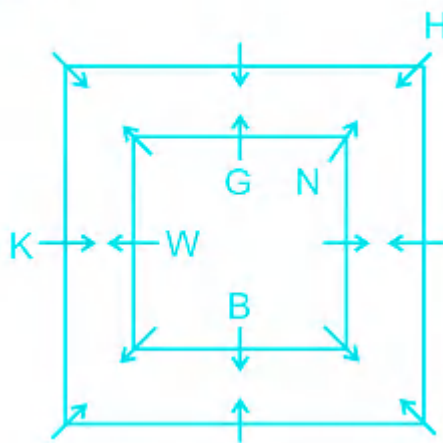


Case 2

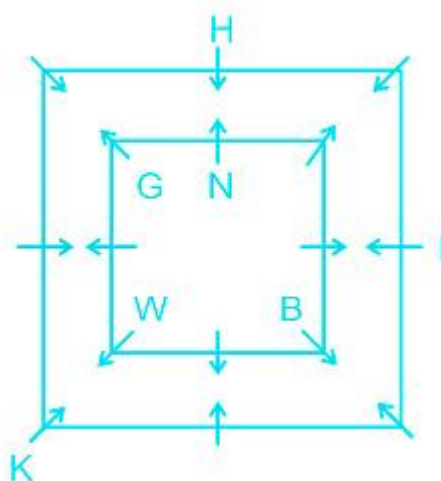


5. Three people are sitting between N and the one who is sitting third to the left of G.
6. H is sitting third to the left of the one who is facing W.

Case 1



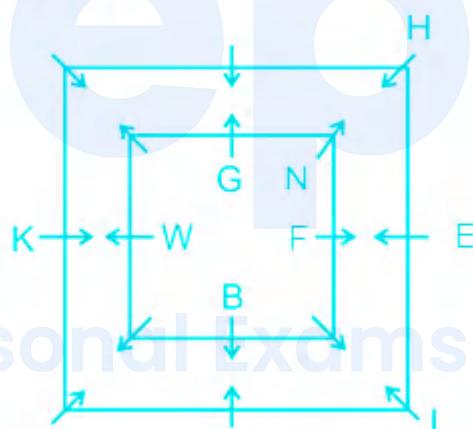
Case 2



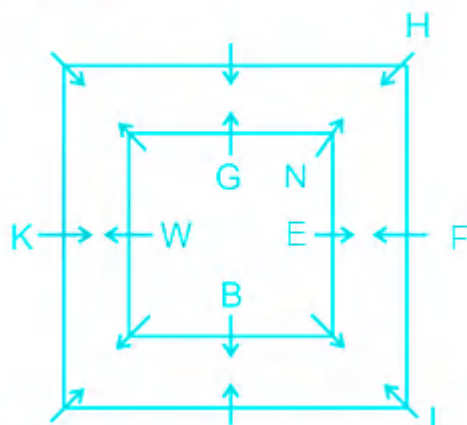
7. F and E are facing each other, but F is not a neighbour of D and R.

8. E is not sitting at any corner.

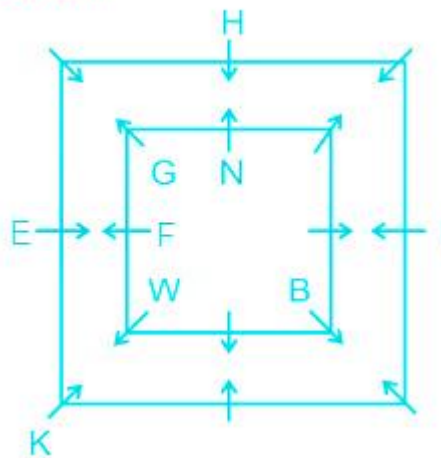
Case 1(a)



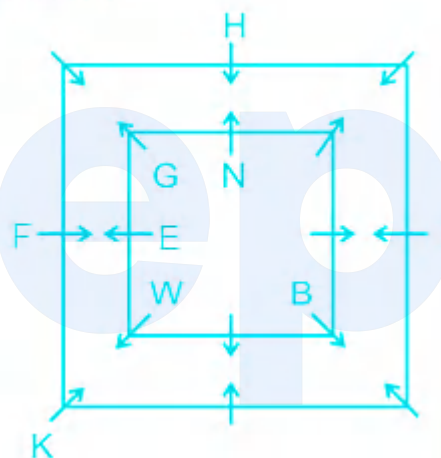
Case 1(b)



Case 2(a)



Case 2(b)

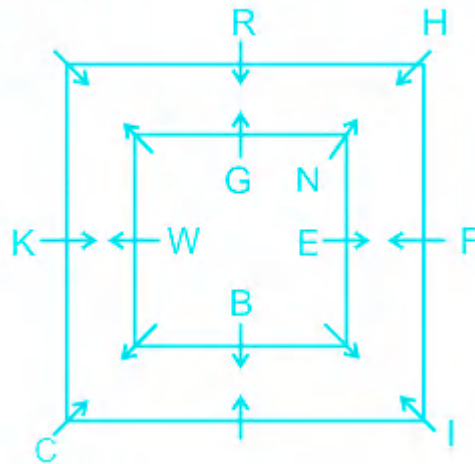


9. F is second to the left R.

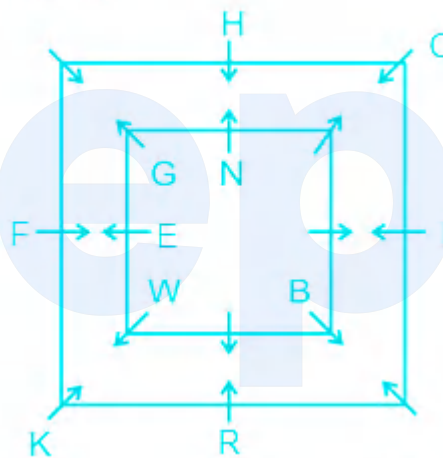
10. C is third to the right of R.

Here, cases 1(a) and 2(a) will be cancelled out as in those cases there is not any appropriate space left for R.

Case 1(b)

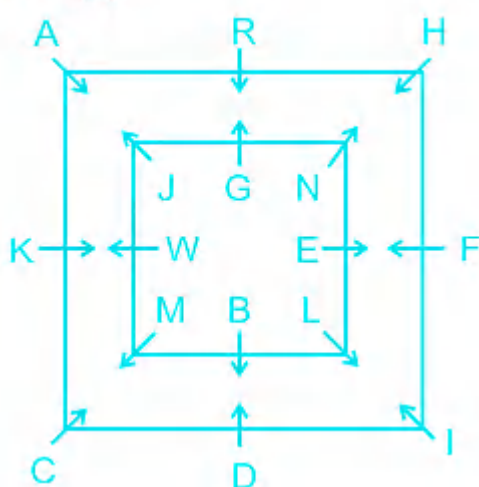


Case 2(b)



11. C is sitting seventh to the right of D.
 12. Neither E nor J is neighbour of B
 13. Two persons are sitting between E and J.
 14. A is neither the neighbour of C nor of H but sitting at the boundary.
 15. M is neither facing H nor I.
 16. L is sitting at one of the corners.
- Here, case 2(b) will be cancelled out as there is not any appropriate place left for D.
- So, the final arrangement would be:

Case 1(b)



Hence, the **A** the correct answer.

13. Answer: b

Explanation:

By observing the given information, we can conclude that,

@ denotes north

\$ denotes east

% denotes south

& denotes west

In case of odd number: we have to add 15 in the given position.

In case of even number, we have to subtract 15 in the given position.

A 28@B, B 9% C, C 7\$ D, D 26%E, E 18& F, F 11&G, G 24% H.

By decoding these expressions, we get

A 28@B: A is 13m is to the north of B

B 9% C: B is 24m is to the south of C

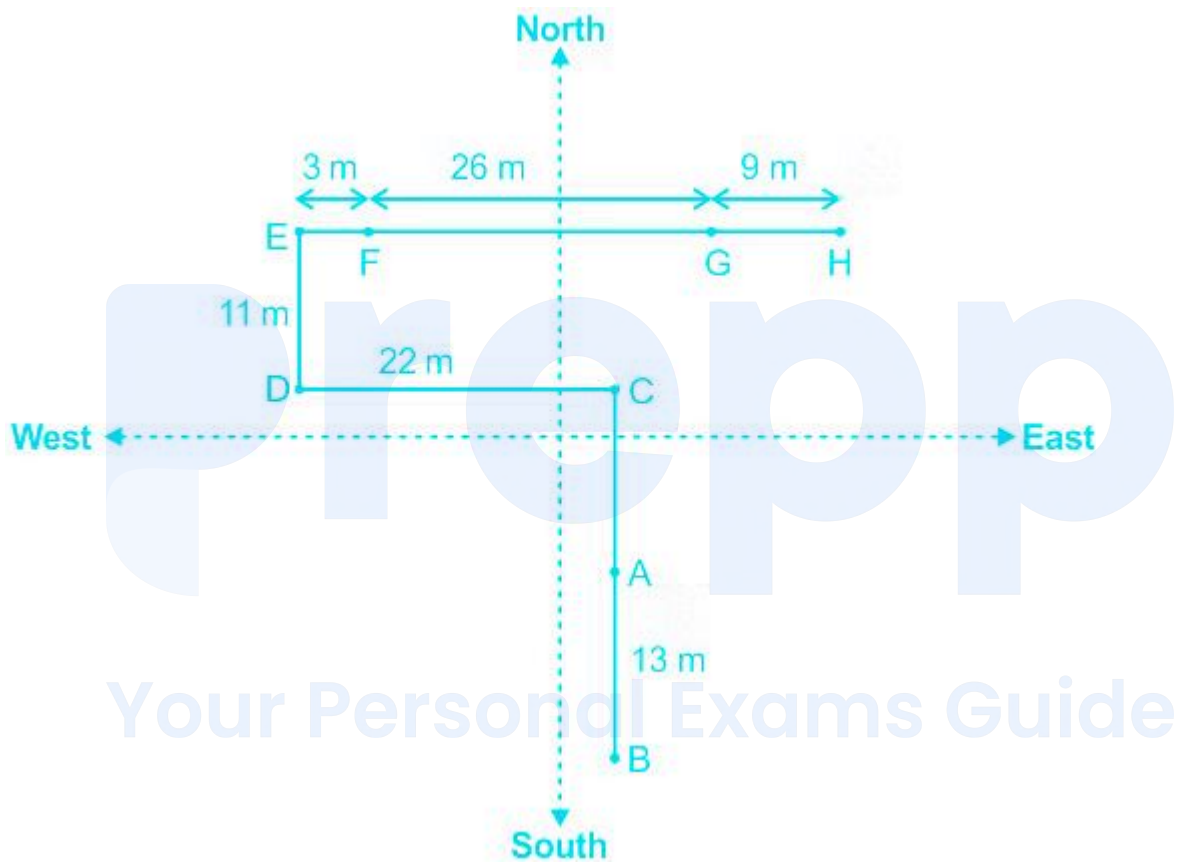
C 7\$ D: C is 22m is to the east of D

D 26% E: D is 11m is to the south E

E 18& F: E is 3m is to the west of F

F 11& G: F is 26m is to the west of G

G 24& H: G is 9m is to the west H.



By checking the options:

1) F 5* A: F is northeast 20m to A → False

2) C 9@ B: C is 24m north to B → True

Hence, **C 9@ B** is the correct answer.

14. Answer: d

Explanation:

Given:

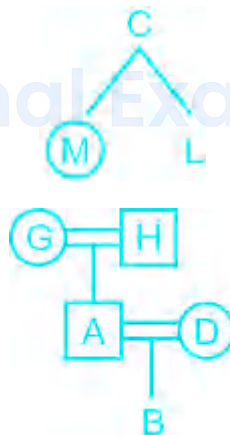
1. $H \# A \# C \% B, K \& C, K \# L, H \& G \% Z$

H is father of A, A is father of C, C is sister of B, K is the husband of C, K is father of L, H is husband of G, G is sister of Z.

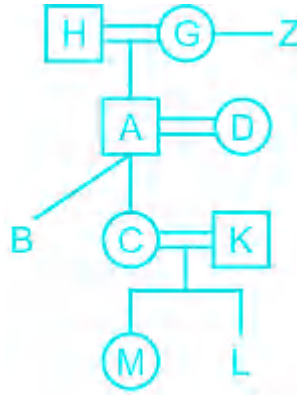


2. $A \& D, B, M \text{ A } @ H$

A is husband of D, D is mother of B, M is sister of L, L is daughter of C, C is mother of A, A is son of H.



Combining both we get,



Hence, A is **grandfather** of M.

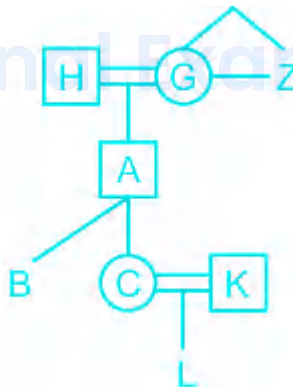
15. Answer: d

Explanation:

Given:

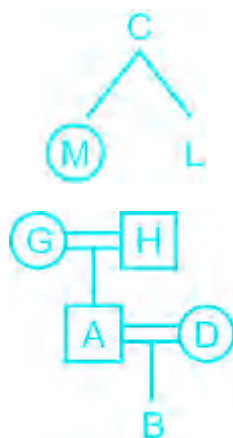
1. $H \# A \# C \% B, K \& C, K \# L, H \& G \% Z$

H is father of A, A is father of C, C is sister of B, K is the husband of C, K is father of L, H is husband of G, G is sister of Z.

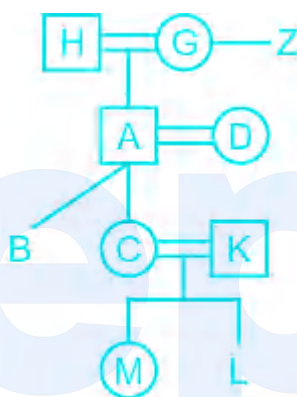


2. $A \& D, B, M \ A @ H$

A is husband of D, D is mother of B, M is sister of L, L is daughter of C, C is mother of A, A is son of H.



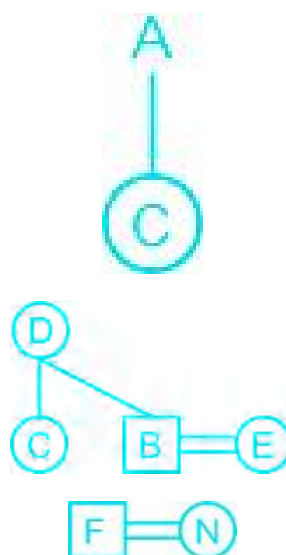
Combining both we get,



Now, using statement I

I. $C * A, D \$ C \% B \& E, F \& N$

C is daughter of A, D is father of C, C is sister of B, B is husband of E, F is husband of N.



We cannot determine any relationship between N and E.

Statement II:

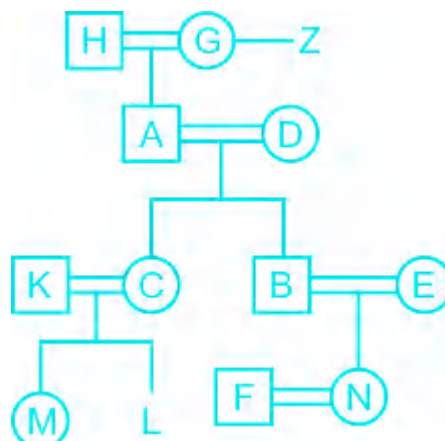
II. B # N, B @ A @ G

B is father of N, B is son of A, A is son of G.



We cannot determine about N's relationship with B as the gender of N is not known.

Now combining all the information, we get:



Now, we can say that N is daughter of E.

Hence, **Data in both the Statements I and II together are necessary to answer the question.**

16. Answer: e

Explanation:

Faizal should take both course of actions as XYZ components are used for medical purposes. So, it must be only allowed to used by pharmaceutical companies.

Also, publishing an order to prohibit the use of the XYZ component in alcohol will give a sense of fear to those, who use it illegally.

Hence, both I and II follow.

17. Answer: b

Explanation:

Here, the problem is whether the proposal to suspend Insolvency and Bankruptcy Code (IBC) proceedings is a right step or not.

Argument I is strong. Clearly, a lot of companies will be facing Economic stress and subdued business due to the COVID scenario and will be unable to pay their debt obligations. The move will prevent such businesses from being dragged into IBC proceedings.

Argument II is not strong. The Government is not writing off debts of these borrowers to kickstart a bad credit culture. It is only suspending IBC proceedings by 6-18 months. The borrowers are still liable to pay their debt obligations.

Argument III is strong. Suspending IBC will adversely affect the ease of loan recovery of banks and increase the stress on the banking system as the recovery will have to wait until the suspension is revoked.

Hence, only arguments I and III are strong.

18. Answer: c

Explanation:

Name: A, B, C, D, E, F, and G

TV Channel: Sony, Star, Zee, Mahua, 9XM, Zoom, Zing

1) D lives on an even floor and just above the one who likes the Zee channel.

2) F likes the 9XM channel and lives on floor number 4.

From sentence 1, we have two even floors.

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CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7			7		
6	D		6		
5		Zee	5		
4	F	9XM	4	F	9XM
3			3		
2			2	D	
1			1		Zee

3) Person A lives on the floor which is immediately above D and likes the Zing channel.

4) B lives on an even number floor and immediately above the E's floor. E likes the Mahua channel

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7	A	Zing	7		
6	D		6	B	
5		Zee	5	E	Mahua
4	F	9XM	4	F	9XM
3			3	A	Zing
2	B		2	D	
1	E	Mahua	1		Zee

5) G does not live on the bottommost and topmost floor. G does not like Zee and Zoom channel. (This statement eliminates the case 2)

Floor	Name	TV channel
7	A	Zing
6	D	
5	C	Zee
4	F	9XM
3	G	
2	B	
1	E	Mahua

6) There are three floors between the one who likes Zoom and the one who likes Star.

7) The one who likes the Zoom channel lives on floor number 2.

So, G likes Sony Channel.

Floor	Name	TV channel
7	A	Zing
6	D	Star
5	C	Zee
4	F	9XM
3	G	Sony
2	B	Zoom
1	E	Mahua

Hence, the pair ' 5th floor – C – Zee ' is correct.

19. Answer: d

Explanation:

Name: A, B, C, D, E, F, and G

TV Channel: Sony, Star, Zee, Mahua, 9XM, Zoom, Zing

1) D lives on an even floor and just above the one who likes the Zee channel.

2) F likes the 9XM channel and lives on floor number 4.

From sentence 1, we have two even floors.

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7			7		
6	D		6		
5		Zee	5		
4	F	9XM	4	F	9XM
3			3		
2			2	D	
1			1		Zee

3) Person A lives on the floor which is immediately above D and likes the Zing channel.

4) B lives on an even number floor and immediately above the E's floor. E likes the Mahua channel

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7	A	Zing	7		
6	D		6	B	
5		Zee	5	E	Mahua
4	F	9XM	4	F	9XM
3			3	A	Zing
2	B		2	D	
1	E	Mahua	1		Zee

5) G does not live on the bottommost and topmost floor. G does not like Zee and Zoom channel. (This statement eliminates the case 2)

Floor	Name	TV channel
7	A	Zing
6	D	
5	C	Zee
4	F	9XM
3	G	
2	B	
1	E	Mahua

6) There are three floors between the one who likes Zoom and the one who likes Star.

7) The one who likes the Zoom channel lives on floor number 2.

So, G likes Sony channel.

Floor	Name	TV channel
7	A	Zing
6	D	Star
5	C	Zee
4	F	9XM
3	G	Sony
2	B	Zoom
1	E	Mahua

Hence, **the person who likes Star** Channel lives on floor no. 6.

20. **Answer: b**

Explanation:

Name: A, B, C, D, E, F, and G

TV Channel: Sony, Star, Zee, Mahua, 9XM, Zoom, Zing

1) D lives on an even floor and just above the one who likes the Zee channel.

2) F likes the 9XM channel and lives on floor number 4.

From sentence 1, we have two even floors.

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7			7		
6	D		6		
5		Zee	5		
4	F	9XM	4	F	9XM
3			3		
2			2	D	
1			1		Zee

3) Person A lives on the floor which is immediately above D and likes the Zing channel.

4) B lives on an even number floor and immediately above the E's floor. E likes the Mahua channel

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7	A	Zing	7		
6	D		6	B	
5		Zee	5	E	Mahua
4	F	9XM	4	F	9XM
3			3	A	Zing
2	B		2	D	
1	E	Mahua	1		Zee

5) G does not live on the bottommost and topmost floor. G does not like Zee and Zoom channel. (This statement eliminates the case 2)

Floor	Name	TV channel
7	A	Zing
6	D	
5	C	Zee
4	F	9XM
3	G	
2	B	
1	E	Mahua

6) There are three floors between the one who likes Zoom and the one who likes Star.

7) The one who likes the Zoom channel lives on floor number 2.

So, G likes Sony channel.

Floor	Name	TV channel
7	A	Zing
6	D	Star
5	C	Zee
4	F	9XM
3	G	Sony
2	B	Zoom
1	E	Mahua

Hence, **two** persons are living between the C and the one who likes the Zoom channel.

21. Answer: a

Explanation:

Name: A, B, C, D, E, F, and G

TV Channel: Sony, Star, Zee, Mahua, 9XM, Zoom, Zing

1) D lives on an even floor and just above the one who likes the Zee channel.

2) F likes the 9XM channel and lives on floor number 4.

From sentence 1, we have two even floors.

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7			7		
6	D		6		
5		Zee	5		
4	F	9XM	4	F	9XM
3			3		
2			2	D	
1			1		Zee

3) Person A lives on the floor which is immediately above D and likes the Zing channel.

4) B lives on an even number floor and immediately above the E's floor. E likes the Mahua channel

CASE 1			CASE 2		
Floor	Name	TV channel	Floor	Name	TV channel
7	A	Zing	7		
6	D		6	B	
5		Zee	5	E	Mahua
4	F	9XM	4	F	9XM
3			3	A	Zing
2	B		2	D	
1	E	Mahua	1		Zee

5) G does not live on the bottommost and topmost floor. G does not like Zee and Zoom channel. (This statement eliminates the case 2)

Floor	Name	TV channel
7	A	Zing
6	D	
5	C	Zee
4	F	9XM
3	G	
2	B	
1	E	Mahua

6) There are three floors between the one who likes Zoom and the one who likes Star.

7) The one who likes the Zoom channel lives on floor number 2.

So, G likes Sony channel.

Floor	Name	TV channel
7	A	Zing
6	D	Star
5	C	Zee
4	F	9XM
3	G	Sony
2	B	Zoom
1	E	Mahua

From the above arrangement, we can see that A lives on the 7th floor .

22. Answer: c

Explanation:

Six persons: Ramesh, Suresh, Mahesh, Yogesh, Dipesh and Paresh

1) Ramesh has more bikes than Dipesh and Mahesh.

2) Suresh has more bikes than Paresh, who doesn't have fewer bikes than Ramesh.

Suresh > Paresh > Ramesh > Dipesh/Mahesh > Dipesh/Mahesh

3) Suresh doesn't have the highest number of bikes.

Yogesh > Suresh > Paresh > Ramesh > Dipesh/Mahesh > Dipesh/Mahesh
above is the final arrangement,
Hence, Paresh has the 3rd highest number of bikes.

23. Answer: a

Explanation:

Given:

Persons: A, B, C, D, E, F, G, H, I, J, K and L.

- 1) They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday.
- 2) The day before 28th June is Saturday.
- 3) B's holiday is on 28th June and there are four Sundays between B and E.
- 4) E is the second last person.

Imply that Sunday are as follows:

First 28th June, 5th July, 12 July, 19th July, 26th July, 2 August, 9th August.

- 5) Holiday of E is after B. E is the second last person. Imply that E's holiday is on 2nd August.
- 6) Holiday start from 28th june. Therefore B is the first person.
- 7) There is no Sundays between B and D.

Date and Month	Person
28 June	B
5 July	D
12 July	
19 July	
26 July	
2 August	E
9 August	

- 8) A and C have holiday on the same day.
- 9) D is not share holiday with F or G.
- 10) D share his holiday with other two persons but not with J or I.
- 11) H, L and K have holiday on the same day.
- 12) No one share the holiday with E.
- 13) No one share holiday with B.

Therefore, D definitely share his holiday with A and C.

The arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	
19 July	
26 July	
2 August	E
9 August	

- 14) There is gap of one Sunday between F, I and A.
- 15) There is only one Sunday between J and H.
- 16) H's holiday is after J.
- 17) There is no holiday on 12th July. Therefore, H's holiday is on 9th August and H, K and L have holiday on same sunday.
- 18) The number of Sundays between B and A is same as between E and G.
- 19) G share holiday only with J.

The final arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	-
19 July	F, I
26 July	J, G
2 August	E
9 August	H, K, L

Hence, E has holiday on 2nd August.

24. Answer: c

Explanation:

Given:

Persons: A, B, C, D, E, F, G, H, I, J, K and L.

- 1) They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday.
- 2) The day before 28th June is Saturday.
- 3) B's holiday is on 28th June and there are four Sundays between B and E.
- 4) E is the second last person.

Imply that Sunday are as follows:

First 28th June, 5th July, 12 July, 19th July, 26th July, 2 August, 9th August.

- 5) Holiday of E is after B. E is the second last person. Imply that E's holiday is on 2nd August.
- 6) Holiday start from 28th june. Therefore B is the first person.
- 7) There is no Sundays between B and D.

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Date and Month	Person
28 June	B
5 July	D
12 July	
19 July	
26 July	
2 August	E
9 August	

- 8) A and C have holiday on the same day.
- 9) D is not share holiday with F or G.
- 10) D share his holiday with other two persons but not with J or I.
- 11) H, L and K have holiday on the same day.
- 12) No one share the holiday with E.
- 13) No one share holiday with B.

Therefore, D definitely share his holiday with A and C.

The arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	
19 July	
26 July	
2 August	E
9 August	

- 14) There is gap of one Sunday between F, I and A.
- 15) There is only one Sunday between J and H.
- 16) H's holiday is after J.
- 17) There is no holiday on 12th July. Therefore, H's holiday is on 9th August and H, K and L have holiday on same sunday.
- 18) The number of Sundays between B and A is same as between E and G.
- 19) G share holiday only with J.

The final arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	-
19 July	F, I
26 July	J, G
2 August	E
9 August	H, K, L

Hence, D share his holiday with **A and C** .

25. **Answer: b**

Explanation:

Given:

Persons: A, B, C, D, E, F, G, H, I, J, K and L.

- 1) They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday.
- 2) The day before 28th June is Saturday.
- 3) B's holiday is on 28th June and there are four Sundays between B and E.
- 4) E is the second last person.

Imply that Sunday are as follows:

First 28th June, 5th July, 12 July, 19th July, 26th July, 2 August, 9th August.

- 5) Holiday of E is after B. E is the second last person. Imply that E's holiday is on 2nd August.
- 6) Holiday start from 28th june. Therefore B is the first person.
- 7) There is no Sundays between B and D.

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Date and Month	Person
28 June	B
5 July	D
12 July	
19 July	
26 July	
2 August	E
9 August	

- 8) A and C have holiday on the same day.
- 9) D is not share holiday with F or G.
- 10) D share his holiday with other two persons but not with J or I.
- 11) H, L and K have holiday on the same day.
- 12) No one share the holiday with E.
- 13) No one share holiday with B.

Therefore, D definitely share his holiday with A and C.

The arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	
19 July	
26 July	
2 August	E
9 August	

- 14) There is gap of one Sunday between F, I and A.
- 15) There is only one Sunday between J and H.
- 16) H's holiday is after J.
- 17) There is no holiday on 12th July. Therefore, H's holiday is on 9th August and H, K and L have holiday on same sunday.
- 18) The number of Sundays between B and A is same as between E and G.
- 19) G share holiday only with J.

The final arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	-
19 July	F, I
26 July	J, G
2 August	E
9 August	H, K, L

Hence, H has holiday on **9th of August** .

26. Answer: c

Explanation:

Given:

Persons: A, B, C, D, E, F, G, H, I, J, K and L.

- 1) They have holidays on different Sundays atleast one and atmost three person can share the holiday on the same sunday.
- 2) The day before 28th June is Saturday.
- 3) B's holiday is on 28th June and there are four Sundays between B and E.
- 4) E is the second last person.

Imply that Sunday are as follows:

First 28th June, 5th July, 12 July, 19th July, 26th July, 2 August, 9th August.

- 5) Holiday of E is after B. E is the second last person. Imply that E's holiday is on 2nd August.
- 6) Holiday start from 28th june. Therefore B is the first person.
- 7) There is no Sundays between B and D.

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Date and Month	Person
28 June	B
5 July	D
12 July	
19 July	
26 July	
2 August	E
9 August	

- 8) A and C have holiday on the same day.
- 9) D is not share holiday with F or G.
- 10) D share his holiday with other two persons but not with J or I.
- 11) H, L and K have holiday on the same day.
- 12) No one share the holiday with E.
- 13) No one share holiday with B.

Therefore, D definitely share his holiday with A and C.

The arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	
19 July	
26 July	
2 August	E
9 August	

- 14) There is gap of one Sunday between F, I and A.
- 15) There is only one Sunday between J and H.
- 16) H's holiday is after J.
- 17) There is no holiday on 12th July. Therefore, H's holiday is on 9th August and H, K and L have holiday on same sunday.
- 18) The number of Sundays between B and A is same as between E and G.
- 19) G share holiday only with J.

The final arrangement is as follows:

Date and Month	Person
28 June	B
5 July	D, A, C
12 July	-
19 July	F, I
26 July	J, G
2 August	E
9 August	H, K, L

Hence, there are **three** Sundays between G and B.

27. Answer: d

Explanation:

The passage above discusses the process of desertification. It is becoming a huge problem which is being faced all around the globe.

We need to find options that can be a possible reason for desertification.

The first option talks about animal grazing which can be one of the major reasons for desertification as there are too many animals that are overgrazing in certain spots which makes it difficult for the plants to grow back, which hurts the biome and makes it lose its former green glory.

The second option discusses urbanization and its ill effects upon plants. This is a probable reason for the increasing desertification. Hence, it is also correct.

The third option is more of an effect than a cause of desertification. The lands turning infertile due to desertification are an effect and thus not the correct answer for the above question.

As the statements above mentioned that desertification is a type of land degradation in drylands in which biological productivity is lost due to natural processes or induced by human activities and both Option 1 and 2 are human activities which can cause desertifications.
Hence, both 1 and 2 are correct.

28. Answer: a

Explanation:

Given:

Eight boxes P, Q, R, S, T, U, V and W

The flavour of cake – strawberry, mango, vanilla, pineapple, chocolate, butterscotch, red velvet and caramel.

- 1) There are three boxes between box V and W which is having Chocolate flavour cake.
- 2) Box V is placed above W but W is not placed at the bottom.
- 3) There are two boxes between V and U which is having Red velvet flavour cake.

Number	CASE 1		CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8	V					
7			V			
6					V	
5	U	Red velvet				
4	W	Chocolate	U	Red velvet		
3			W	Chocolate	U	Red velvet
2					W	Chocolate
1						

4) Butterscotch flavour cake box is placed just above V.

(CASE 1 is eliminated as there is no place above V)

5) Box W is placed just above the Vanilla flavour box.

6) There is only one box between box Q and W.

Number	CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8		Butterscotch		
7	V			Butterscotch
6			V	
5	Q			
4	U	Red velvet	Q	
3	W	Chocolate	U	Red velvet
2		Vanilla	W	Chocolate
1				Vanilla

7) There are two boxes between box S and Q and box S does not have Vanilla flavour cake.

8) There is the same number of boxes between box S and U and between box R and T.

(Only 1 place and 1 person left it means P is placed at that position)

Number	CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8	S	Butterscotch	P	
7	V		S	Butterscotch
6	R/T		V	
5	Q		R/T	
4	U	Red velvet	Q	
3	W	Chocolate	U	Red velvet
2	T/R	Vanilla	W	Chocolate
1	P		T/R	Vanilla

- 9) Strawberry flavour box is placed above the Mango flavour box.
- 10) There are more than three boxes between Pineapple and Vanilla flavour box.
- 11) There are more than three boxes between Caramel and Vanilla flavour box.

(In CASE 2, we can not fix 11 and 12 because Only 1 position left. So, Case 2 is eliminated)

12) Pineapple flavour box is not on the Top.

13) Box T is neither Strawberry nor Butterscotch flavour.

(So, Box T is Vanilla flavour)

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Number	CASE 3	
	Boxes	Cake's Flavour
8	P	Caramel
7	S	Butterscotch
6	V	Pineapple
5	R	Strawberry
4	Q	Mango
3	U	Red velvet
2	W	Chocolate
1	T	Vanilla

Final Solution;

Number	CASE 3	
	Boxes	Cake's Flavour
8	P	Caramel
7	S	Butterscotch
6	V	Pineapple
5	R	Strawberry
4	Q	Mango
3	U	Red velvet
2	W	Chocolate
1	T	Vanilla

There are four boxes between P and the one who like Red velvet.

Hence, the answer is **four**.

29. Answer: e

Explanation:

Given:

Eight boxes P, Q, R, S, T, U, V and W

The flavour of cake – strawberry, mango, vanilla, pineapple, chocolate, butterscotch, red velvet and caramel.

- 1) There are three boxes between box V and W which is having Chocolate flavour cake.
- 2) Box V is placed above W but W is not placed at the bottom.
- 3) There are two boxes between V and U which is having Red velvet flavour cake.

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Number	CASE 1		CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8	V					
7			V			
6					V	
5	U	Red velvet				
4	W	Chocolate	U	Red velvet		
3			W	Chocolate	U	Red velvet
2					W	Chocolate
1						

4) Butterscotch flavour cake box is placed just above V.

(CASE 1 is eliminated as there is no place above V)

5) Box W is placed just above the Vanilla flavour box.

6) There is only one box between box Q and W.

Number	CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8		Butterscotch		
7	V			Butterscotch
6			V	
5	Q			
4	U	Red velvet	Q	
3	W	Chocolate	U	Red velvet
2		Vanilla	W	Chocolate
1				Vanilla

7) There are two boxes between box S and Q and box S does not have Vanilla flavour cake.

8) There is the same number of boxes between box S and U and between box R and T.

(Only 1 place and 1 person left it means P is placed at that position)

Number	CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8	S	Butterscotch	P	
7	V		S	Butterscotch
6	R/T		V	
5	Q		R/T	
4	U	Red velvet	Q	
3	W	Chocolate	U	Red velvet
2	T/R	Vanilla	W	Chocolate
1	P		T/R	Vanilla

- 9) Strawberry flavour box is placed above the Mango flavour box.
- 10) There are more than three boxes between Pineapple and Vanilla flavour box.
- 11) There are more than three boxes between Caramel and Vanilla flavour box.

(In CASE 2, we can not fix 11 and 12 because Only 1 position left. So, Case 2 is eliminated)

12) Pineapple flavour box is not on the Top.

13) Box T is neither Strawberry nor Butterscotch flavour.

(So, Box T is Vanilla flavour)

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Number	CASE 3	
	Boxes	Cake's Flavour
8	P	Caramel
7	S	Butterscotch
6	V	Pineapple
5	R	Strawberry
4	Q	Mango
3	U	Red velvet
2	W	Chocolate
1	T	Vanilla

Final Solution;

Number	CASE 3	
	Boxes	Cake's Flavour
8	P	Caramel
7	S	Butterscotch
6	V	Pineapple
5	R	Strawberry
4	Q	Mango
3	U	Red velvet
2	W	Chocolate
1	T	Vanilla

There are three boxes placed above R and three boxes placed below Q.

Hence, the answer is Q.

30. Answer: b

Explanation:

Given:

Eight boxes P, Q, R, S, T, U, V and W

The flavour of cake – strawberry, mango, vanilla, pineapple, chocolate, butterscotch, red velvet and caramel.

- 1) There are three boxes between box V and W which is having Chocolate flavour cake.
- 2) Box V is placed above W but W is not placed at the bottom.
- 3) There are two boxes between V and U which is having Red velvet flavour cake.

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Number	CASE 1		CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8	V					
7			V			
6					V	
5	U	Red velvet				
4	W	Chocolate	U	Red velvet		
3			W	Chocolate	U	Red velvet
2					W	Chocolate
1						

4) Butterscotch flavour cake box is placed just above V.

(CASE 1 is eliminated as there is no place above V)

5) Box W is placed just above the Vanilla flavour box.

6) There is only one box between box Q and W.

Number	CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8		Butterscotch		
7	V			Butterscotch
6			V	
5	Q			
4	U	Red velvet	Q	
3	W	Chocolate	U	Red velvet
2		Vanilla	W	Chocolate
1				Vanilla

7) There are two boxes between box S and Q and box S does not have Vanilla flavour cake.

8) There is the same number of boxes between box S and U and between box R and T.

(Only 1 place and 1 person left it means P is placed at that position)

Number	CASE 2		CASE 3	
	Boxes	Cake's Flavour	Boxes	Cake's Flavour
8	S	Butterscotch	P	
7	V		S	Butterscotch
6	R/T		V	
5	Q		R/T	
4	U	Red velvet	Q	
3	W	Chocolate	U	Red velvet
2	T/R	Vanilla	W	Chocolate
1	P		T/R	Vanilla

- 9) Strawberry flavour box is placed above the Mango flavour box.
- 10) There are more than three boxes between Pineapple and Vanilla flavour box.
- 11) There are more than three boxes between Caramel and Vanilla flavour box.

(In CASE 2, we can not fix 11 and 12 because Only 1 position left. So, Case 2 is eliminated)

12) Pineapple flavour box is not on the Top.

13) Box T is neither Strawberry nor Butterscotch flavour.

(So, Box T is Vanilla flavour)



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Number	CASE 3	
	Boxes	Cake's Flavour
8	P	Caramel
7	S	Butterscotch
6	V	Pineapple
5	R	Strawberry
4	Q	Mango
3	U	Red velvet
2	W	Chocolate
1	T	Vanilla

Final Solution;

Number	CASE 3	
	Boxes	Cake's Flavour
8	P	Caramel
7	S	Butterscotch
6	V	Pineapple
5	R	Strawberry
4	Q	Mango
3	U	Red velvet
2	W	Chocolate
1	T	Vanilla

Caramel flavour cake is placed in box P.

Hence, the answer is **P**.

31. Answer: b

Explanation:

Code for the given word is as follows;

he arrived fast here → nm st ow re
 he like that hat → bt kx re dq
 like that black color → bt ck ld dq

Hence, "kx" is the code for hat.

32. Answer: d

Explanation:

Code for the given word is as follows;

he arrived fast here → nm st ow re
 he like that hat → bt kx re dq
 like that black color → bt ck ld dq

Statement I: please come here → nm as zh

To find the code for color, we have to find the code for either black or color. So, this statement is not sufficient.

Statement II: he arrived market → st vh re

To find the code for color, we have to find the code for either black or color. So, this statement is not sufficient.

Statement III: everyone like black → ya ck bt

By using this statement we get to know that code for black is 'ck' and the code for color is ld. So, this statement is sufficient.

Hence, If the data in **statement III alone is sufficient to answer the question.**

33. Answer: c

Explanation:

Code for the given word is as follows;

he arrived fast here → nm st ow re
he like that hat → bt kx re dq
like that black color → bt ck ld dq

Statement I: "please come here" is coded as "nm as zh" and "go to market" is coded as "qx vh pu".

This statement alone is not sufficient.

Statement II: "he arrived market" is coded as "st vh re" and "not like hat" is coded as "bt kx fn".

This statement alone is not sufficient.

Statement III: "everyone like black" is coded as "ya ck bt" and "he is fair" is coded as "lz re rf".

This statement is not sufficient.

By using Statement I and II together,

Code for here is 'nm' and code for arrived is 'st'. So, code for Fast is 'ow'.

Hence, If the data in statement I and statement II together are sufficient to answer the question.

34. Answer: d

Explanation:

- 1) F lives in house number 2.
- 2) There are only four people live to the west of D
- 3) D lives in a prime numbered house. (D cannot live in house number 2, so he either live on 3rd or 5th)
- 4) G lives to the west of D but not with F.
- 5) The number of people live between S and M is equal to the number of people between M and D.
- 6) S is to the west of M.

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D				
CASE 2	S	F	M	G	D		
CASE 3	G	F	S	M	D		

- 7) W is an immediate neighbor of M. (This eliminates case 2 as in that case There are more than 4 people west of D)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W				
CASE 3	G	F	S	M	D, W		

8) There are six people between M and Q. Q lives in an even numbered house. (This eliminates case 3)

9) P lives alone in an even numbered house.

10) A and B live together in one of the house between W and Q.

11) Only one person lives between C and N, who does not live in house that is at extreme end.

(There are six people between M and Q and P lives alone so only one case is possible that N live with A and B and C live at extreme end)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W	P	A, B, N	Q	C

Hence, N, A and B live in house number 5.

35. Answer: b

Explanation:

1) F lives in house number 2.

- 2) There are only four people live to the west of D
- 3) D lives in a prime numbered house. (D cannot live in house number 2, so he either live on 3rd or 5th)
- 4) G lives to the west of D but not with F.
- 5) The number of people live between S and M is equal to the number of people between M and D.
- 6) S is to the west of M.

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D				
CASE 2	S	F	M	G	D		
CASE 3	G	F	S	M	D		

- 7) W is an immediate neighbor of M. (This eliminates case 2 as in that case There are more than 4 people west of D)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W				
CASE 3	G	F	S	M	D, W		

8) There are six people between M and Q. Q lives in an even numbered house. (This eliminates case 3)

9) P lives alone in an even numbered house.

10) A and B live together in one of the house between W and Q.

11) Only one person lives between C and N, who does not live in house that is at extreme end.

(There are six people between M and Q and P lives alone so only one case is possible that N live with A and B and C live at extreme end)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W	P	A, B, N	Q	C

Hence, six people to the west of P.

36. Answer: a

Explanation:

1) F lives in house number 2.

2) There are only four people live to the west of D

3) D lives in a prime numbered house. (D cannot live in house number 2, so he either live on 3rd or 5th)

4) G lives to the west of D but not with F.

5) The number of people live between S and M is equal to the number of people between M and D.

6) S is to the west of M.

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D				
CASE 2	S	F	M	G	D		
CASE 3	G	F	S	M	D		

7) W is an immediate neighbor of M. (This eliminates case 2 as in that case There are more than 4 people west of D)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W				
CASE 3	G	F	S	M	D, W		

8) There are six people between M and Q. Q lives in an even numbered house. (This eliminates case 3)

9) P lives alone in an even numbered house.

10) A and B live together in one of the house between W and Q.

11) Only one person lives between C and N, who does not live in house that is at extreme end.

(There are six people between M and Q and P lives alone so only one case is possible that N live with A and B and C live at extreme end)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W	P	A, B, N	Q	C

Hence, S lives extreme left end

37. Answer: e

Explanation:

- 1) F lives in house number 2.
- 2) There are only four people live to the west of D
- 3) D lives in a prime numbered house. (D cannot live in house number 2, so he either live on 3rd or 5th)
- 4) G lives to the west of D but not with F.
- 5) The number of people live between S and M is equal to the number of people between M and D.
- 6) S is to the west of M.

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D				
CASE 2	S	F	M	G	D		
CASE 3	G	F	S	M	D		

7) W is an immediate neighbor of M. (This eliminates case 2 as in that case There are more than 4 people west of D)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W				
CASE 3	G	F	S	M	D, W		

8) There are six people between M and Q. Q lives in an even numbered house. (This eliminates case 3)

9) P lives alone in an even numbered house.

10) A and B live together in one of the house between W and Q.

11) Only one person lives between C and N, who does not live in house that is at extreme end.

(There are six people between M and Q and P lives alone so only one case is possible that N live with A and B and C live at extreme end)

	1	2	3	4	5	6	7
CASE 1	G, S	F, M	D, W	P	A, B, N	Q	C

Hence, there are more than seven person live between S and Q.

38. Answer: a

Explanation:

Here, the problem is whether the step towards private participation in Passenger trains from Indian Railways is right or wrong.

Argument I is strong. Clearly, if an Expert Committee in the matter had recommended the same, it should be a good step.

Argument II is also strong. Customer satisfaction is a major parameter to determine the quality of services. Focussing on customer satisfaction would ensure better quality. Thus, it can be considered a highly desirable outcome of the step.

Argument III is not a strong one. It is true that currently, Indian railways are cross-subsidizing losses of passenger trains through higher freight tariffs in order to ensure that Passenger tariffs remain low. But the same need not be applicable for trains operated by private players as they can charge higher rates.

Hence, only arguments I and II are strong.

39. Answer: c

Explanation:

Option (1) cannot be inferred as India is in 3rd rank by purchasing power parity

Option (2) cannot be inferred as there is nothing mentioned about the GDP of 90's.

Option (3) can be inferred as mentioned in the passage that India's GDP growth is expected to grow in the range of 6.0 to 6.5 per cent in 2020-21.

Option (4) cannot be inferred as there is nothing mentioned about pandemic in the passage.

Hence, option (3) is correct.

40. Answer: d

Explanation:

Options 1 and 3 have no relation to the given case and thus can be eliminated.

Option 2 only strengthens the fact that Virus X was responsible for the deaths. Only option 4 suggests that the deaths in country B might not be a result of virus X as the virus was deported on the same day as the reported deaths. It is given in the passage that the virus takes at least 5 days to show any symptoms. Hence, option 4 is correct.

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41. Answer: c

Explanation:

The passage above talks about the recruitment agencies and the task they perform. The last line of the passage mentions that there is a difference between recruitment agencies and employment agencies but they are generally confused to be the same.

The first statement brings forward an important difference between the recruitment agencies and employment agencies. Both of them have different category of clients.

Therefore, it cannot weaken the difference between the two.

The second statement brings forward another difference between the recruitment agencies and employment agencies. It differs in the process of its operation which is a major difference.

Hence, it cannot weaken the difference between the two.

The third statement generalizes both the agencies and brings forward a common link between the two.

This will help us to weaken the fact that there is a difference between recruitment and employment agencies.

42. Answer: a

Explanation:

In the following arrangement,

- 1) The rearrangement of words is taking place from left to right and for numbers, it is right to left.
- 2) The rearrangement is taking place one word and one number at a time.
- 3) The words are chosen in alphabetical order and arranged by interchanging the first and last letters of the word from the left.
- 4) The numbers are arranged in descending order by adding 1 to an odd number and by reducing from an even number.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

STEP 1: Dccora Unbound 52 Height 41 37 Modern Nobles 77 77

STEP 2: Dccora Teighh Unbound 52 41 37 Modern Nobles 78 77

STEP 3: Dccora Teighh Noderm Unbound 41 37 Nobles 51 78 77

STEP 4: Dccora Teighh Noderm Soblen Unbound 37 42 51 78 77

STEP 5: Dccora Teighh Noderm Soblen Dnbounu 38 42 51 78 77

Hence, the position of '78' is **second** in the 2nd step from the right.

43. Answer: b

Explanation:

In the following arrangement,

- 1) The rearrangement of words is taking place from left to right and for numbers, it is right to left.
- 2) The rearrangement is taking place one word and one number at a time.
- 3) The words are chosen in alphabetical order and arranged by interchanging the first and last letters of the word from the left.
- 4) The numbers are arranged in descending order by adding 1 to an odd number and by reducing from an even number.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

STEP 1: Dccora Unbound 52 Height 41 37 Modern Nobles 77 77

STEP 2: Dccora Teighh Unbound 52 41 37 Modern Nobles 78 77

STEP 3: Dccora Teighh Noderm Unbound 41 37 Nobles 51 78 77

STEP 4: Dccora Teighh Noderm Soblen Unbound 37 42 51 78 77

STEP 5: Dccora Teighh Noderm Soblen Dnbounu 38 42 51 78 77

Hence, **Dnbounu** would be at 6th position from the right in the ultimate step.

44. Answer: d

Explanation:

In the following arrangement,

- 1) The rearrangement of words is taking place from left to right and for numbers, it is right to left.
- 2) The rearrangement is taking place one word and one number at a time.
- 3) The words are chosen in alphabetical order and arranged by interchanging the first and last letters of the word from the left.
- 4) The numbers are arranged in descending order by adding 1 to an odd number and by reducing from an even number.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

STEP 1: Dccora Unbound 52 Height 41 37 Modern Nobles 77 77

STEP 2: Dccora Teighh Unbound 52 41 37 Modern Nobles 78 77

STEP 3: Dccora Teighh Noderm Unbound 41 37 Nobles 51 78 77

STEP 4: Dccora Teighh Noderm Soblen Unbound 37 42 51 78 77

STEP 5: Dccora Teighh Noderm Soblen Dnbounu 38 42 51 78 77

Hence, **41** is exactly in between 'Teighh' and 'Nobles' in the 2nd step.

45. Answer: c

Explanation:

In the following arrangement,

- 1) The rearrangement of words is taking place from left to right and for numbers, it is right to left.
- 2) The rearrangement is taking place one word and one number at a time.

3) The words are chosen in alphabetical order and arranged by interchanging the first and last letters of the word from the left.

4) The numbers are arranged in descending order by adding 1 to an odd number and by reducing from an even number.

INPUT: 78 Unbound 52 Height 41 Accord 37 Modern Nobles 77

STEP 1: Dccora Unbound 52 Height 41 37 Modern Nobles 77 77

STEP 2: Dccora Teighh Unbound 52 41 37 Modern Nobles 78 77

STEP 3: Dccora Teighh Noderm Unbound 41 37 Nobles 51 78 77

STEP 4: Dccora Teighh Noderm Soblen Unbound 37 42 51 78 77

STEP 5: Dccora Teighh Noderm Soblen Dnbounu 38 42 51 78 77

Hence, ' **Dccora Teighh Noderm Soblen Unbound 37 42 51 78 77** ' is the penultimate step.

46. Answer: b

Explanation:

The correct answer is Contributing to Aatmanirbhar Bharat.

★ Key Points

- **About NRI day:** Pravasi Bharatiya Divas is celebrated in India on January 9 to mark the contribution of the overseas Indian community .
 - It is also known as the NRI day which commemorates the return of Mahatma Gandhi to India from South Africa in 1915 .
 - The Pravasi Bhartiya Divas was observed for the first time in 2003.
 - The concept of Overseas Citizens of India (OCI) came in 2006 at the Pravasi Bharatiya Divas Convention held at Hyderabad on 9th January.
 - **Theme 2021:** Contributing to Aatmanirbhar Bharat.

- The Pravasi Bharatiya Divas event was **held virtually** amid the coronavirus pandemic.

★ Additional Information

- **Theme 2018:** Redefining engagement with the Indian diaspora.
- **Theme 2019 :** Role of Indian Diaspora in building New India.

47. Answer: d

Explanation:

The correct answer is Bank of India.

- Bank of India (BoI) has launched “ **Signature Visa Debit Card** ” for the affluent/high net worth individuals maintaining an average quarterly balance of **₹10 lakhs and above**.
- This international contactless debit card will be available in metal and plastic variants.
- This card will have a spending limit of up to **₹5 lakhs on POS & e-commerce** and **₹1 lakh on ATM**.

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48. Answer: a

Explanation:

The correct answer is Japan.

In news

- Japan’s Sumitomo Forestry company and Kyoto University have decided to collaborate to develop the world’s first wooden satellite by 2023.

★ Key Points

- The team is also working towards developing wooden materials extremely resistant to temperature changes and sunlight.
- According to the European Space Agency (ESA) statistical model, there are more than 130 million pieces of anthropogenic space debris—waste residue due to human activities—smaller than a millimetre around our planet.
- Most of the “space junk” can reach a speed of 18,000 miles per hour, almost seven times faster than a bullet.
- According to a Professor at Kyoto University and a Japanese Astronaut, Takao Doi, the satellites create tiny alumina particles after coming into contact with Earth's atmosphere.
- These alumina particles will float in the upper atmosphere for many years and eventually will affect the Earth's environment.
- The wooden satellites will help in the cutting of space junk as it will burn up without releasing any form of harmful substances into the atmosphere.

49. Answer: c

Explanation:

The Correct answer is ICICI.

★ Key Points

- **iMOBILE PAY:** Mobile Banking application launched by ICICI Bank.
- Using iMobile Pay, **Transfer money instantly to anyone registered on any of the major UPI apps at zero cost.**
- iMobile Pay allows you to transfer **funds to anyone's mobile number seamlessly**. All you have to do is enter the mobile number from your address book and transfer funds right away .
- There is **no need for card details** , or even a card, to make payments.
- The Industry-first **cash withdrawal solution** without using ICICI Card and ICICI ATM machine.

★ Additional Information

- ICICI: Stands for Industrial Credit and Investment Corporation of India.

- It was founded on January 5, 1994.
- It is an Indian financial institution that wide range of banking products and financial services.
- Headquarters: Vadodara, Gujarat.
- Corporate Office: Mumbai, Maharashtra
- ICICI is one of the BIG FOUR banks in India .(SBI, HDFC, PUNJAB NATIONAL BANK, ICICI)
- ICICI was the first bank that introduced internet banking to its customers in 1998.
- Chairman: Girish Chandra Chaturvedi

50. Answer: d

Explanation:

The correct answer is India Post Payments Bank.

★ Key Points

- **India Post Payments Bank** launches its **digital payments services 'DakPay'**.
 - Aims to **Transform Banking Experience** at the last mile.
 - DakPay is not just a digital payment app but **a suite of digital financial** and assisted banking services provided by **India Post & IPPB**.
 - **Launched under:** Ministry of Communication and Information Technology
 - **Minister** : Ravi Shankar Prasad

★ Additional Information

Name of the bank	Headquarter
ICICI bank	Mumbai (Previous Vadodra)
Canara bank	Bengaluru
IndusInd Bank	Pune
India Post Payments Bank	New Delhi

51. Answer: c

Explanation:

- Fifteen films representing 20 Countries will compete for the Golden Peacock Award at the 50th International Film Festival of India (IFFI).
- This will be the golden Jubilee edition of the festival.
- The selection of the films has been made from over 700 entries.
- Mr. John Bailey will chair the International Jury of 50th International Film Festival of India.

52. Answer: d

Explanation:

The Correct Answer is Canara Bank.

★ Key Points

- **Canara Bank** has introduced **FX 4 U** which allows all its **Internet Banking** users to deal without hassle with **forex transactions**.
- **FX 4 U** is used for **online banking transactions of forex**. In compliance with the **Foreign Exchange Management Act (FEMA) 1999 rules**, qualifying customers will be able to carry out sending services. Once the LC module is allowed, the company can make and send LC applications through internet banking with documents.
- Transactions submitted via Internet banks flow smoothly via the Centralized Process Center – Forex Transactions (CPCFT), where enforcement and accounting are carried out and transmitted via the **Society for Worldwide Interbank Financial Telecommunication (SWIFT)**.

★ Additional Information

- **Canara Bank Founded: July 1906 by Shri Ammembal Subba Rao Pai**

- Canara Bank MD & CEO: L V Prabhakar (as of Dec-2020)
- Canara Bank Headquarters: Bangalore, Karnataka

53. Answer: c

Explanation:

The correct answer is Madhya Pradesh.

★ Key Points

- The **world's largest floating solar** energy project of 600 MW is started in Khandwa district of Madhya Pradesh.
 - To be constructed at **Omkareshwar dam** on Narmada river
 - Will **begin power generation** by the year 2022-23.
 - The **International Finance Corporation, World Bank, and Power Grid** have **granted in-principle consent** for providing aid for the project development.
 - It is estimated that in 2 years, the project will start providing **cheap and good quality power**.
 - **Electricity will be produced** in about a 2000-hectare water areas by installing solar panels in the dam.

★ Additional Information

- India's first **solar power plant** : Punjab.
- India's first solar power island: **Daman and Diu**
- India's first solar tree: **West Bengal**
- **About Madhya Pradesh:**
 - Chief Minister – Shivraj Singh Chouhan.
 - Governor – Mangubhai Chhaganbhai Patel.
 - **National Park:** Bandhavgarh NP, Panna NP, Madhav NP, Pench NP
 - **Tiger Reserve:** Kanha Tiger Reserve, Satpura TR.
 - **State Bird:** Asian Paradise Flycatcher
 - **State Animal:** Swamp Deer

54. Answer: d

Explanation:

The correct answer is Gandhinagar.

★ Key Points

- International Financial Services Centres Authority (banking) Regulations 2020 were approved at a meeting in November 2020.
- These regulations are related to the banking regulations aspects of the International Financial Services Centres.
- Key areas :
 - Requirements for setting up the banking Units in IFSC (IBU).
 - Allowing foreigners to open foreign currency accounts in the banks.
 - Permitting the resident Indians to open foreign currency accounts in the banks.
 - Permissible activities that can be taken up in these IBUs.

★ Additional Information

International Financial Services Centre :

- International Financial Services Centre caters to the **foreign currency** needs of the customers that are out of the jurisdiction of the domestic economy.
- International exchange of finance, financial products, and services takes place at these centres.
- Singapore and Newyork can be regarded as IFSCs.
- In India **GIFT City** (Gujarat International Finance Tec-city) is the first **IFSC**.
- In India, regulatory bodies like RBI, IRDA, and SEBI can setup operational entities in this IFSC.

International Financial Services Centre Authority (IFSCA) :

- International Financial Services Centre Authority is a **statutory body** that was established through **IFSCA Act 2019** .

- It was established on **April 27, 2020** , and is headquartered in **Gandhinagar Gujarat** .
 - It is headed by a chairperson and **Injeti Srinivas** is the current chairperson.
 - It consists of a total of **9 members** appointed for a term of three years.
 - There will be one member nominated by **RBI, IRDA, SEBI, and PFRDA** each.
 - It also consists of two members from the central government and the other two members are nominated by a selection committee.
-

55. Answer: d

Explanation:

The correct answer is Marginal Standing Facility Rate.

★ Key Points

- Marginal Standing Facility (MSF) rate is **the rate at which the scheduled banks borrow funds overnight from RBI against the Government securities**.
 - Marginal Standing Facility is well known as a very short term borrowing scheme to help the scheduled commercial banks.
 - If the banks have excess government bonds over and above the SLR, they can borrow from the Reserve Bank of India under the repo window.
 - But in case any bank that doesn't have excess SLR securities, they can still draw down on their holding of SLR securities and borrow from the Reserve Bank of India at the marginal standing facility rate.
-

56. Answer: c

Explanation:

The correct answer is Paytm.

★ Key Points

- Paytm has launched Payout Links, for businesses to process payout transactions easily.
- Payout Links will allow businesses to send 'incentives' or refunds to the customers' bank accounts or wallet accounts.
- It is aimed at **helping small businesses in sectors like gaming, retail, export, manufacturing and e-commerce.**
- It can be used for **salary payments, vendor payments, commissions and incentive transfers to be done instantly.**
- Paytm Payout Links can be easily created and shared with customers, vendors and employees in one go. The receiver needs to simply open the link and is automatically provided with a list of saved accounts such as Paytm Wallet, Paytm UPI and connected bank accounts, which can be chosen to receive money instantly.
- This feature is a new addition on the Paytm Payout feature which is meant for bulk payments to bank accounts, UPI handles and Paytm wallets instantly.
- The service already processes payments upwards of Rs 1660 crore per month. Major companies like Pidilite Industries, Schneider Electric and Havmor Icecreams use these services extensively.

57. Answer: a

Explanation:

The correct answer is 100% digital banking.

★ Key Points

- **Neo bank** is a virtual bank. A bank without any branches. A bank that is entirely online rather than being physical. Neo banking provides complete digital banking experience through mobile applications.

Advantages of neobanks

- **Customer experience:** neobanks don't offer novel banking services. Their services are similar to those of traditional banks, but with a hyper-enhanced and personalised customer experience. Neobanks have significantly leaner

business models and superior technologies at their disposal compared to traditional banks, providing ease and efficacy in services, such as seamless account creation, round-the-clock customer service supported by chatbots, near real-time cross-border payments, and artificial intelligence (AI) and machine learning (ML)-enabled automated accounting, budgeting and treasury services.

- **Automated services:** Apart from providing primary banking services, neobanks offer automated and near real-time accounting and reconciliation services for bookkeeping, balance sheets, profit and loss statements and taxation services such as GST-compliant invoicing, tax payments record keeping and reconciliation, on mobile platforms for affordable costs..
- **Transparency:** Neobanks are transparent and strive to provide real-time notifications and explanations of any charges and penalties incurred by the customer.
- **Easy-to-use APIs:** Most neobanks provide easy-to-deploy and operate APIs to integrate banking into the accounting and payment infrastructure.
- **Deep insights:** Most neobanks provide dashboard solutions with highly enhanced interfaces and easy to understand and valuable insights for services such as payments, payables and receivables, and bank statements. It's beneficial for businesses with significant expenditure and appropriate number of employees, to be provided with such insights, reduce expenditure and boost productivity and revenue.

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58. Answer: a

Explanation:

The correct answer is Tamil Nadu.

Why in news?

- Ola has signed an investment MoU of Rs 2,400 crore with the Tamil Nadu government to set up its first factory in Tamil Nadu.
- The factory will produce almost 10,000 jobs and, upon completion, will be the largest scooter manufacturing facility in the world. Initially, the plant would

have an annual capacity of 2 million units.

- In a year, the new production plant is expected to be operational. India is well-positioned as a global hub for cutting-edge electric vehicle manufacturing (EVs).
- The facility will serve consumers in markets across the globe, including Europe, Asia, and Latin America.
- Ola Chairman and Group CEO – Bhavish Aggarwal (as of Jan-2021).

59. Answer: c

Explanation:

The correct answer is Singapore.

- Singapore-based startup **StashFin** and **SBM Bank India** have announced the launch of their co-branded contactless prepaid cards.
- Designed through collaboration, these cards will boost access to credit for underbanked consumers.
- The Visa powered card comes with a contactless EMV chip, offering the cardholders 24x7 access to funds.
- The card allows the customer to take loans up to Rs 5 lakh.
- **Singapore:**
 - **Capital** – Singapore City.
 - **Currency** – Singapore dollar.
 - **President** – Halimah Yacob.
 - **National Sport** – Football.

60. Answer: d

Explanation:

The correct answer is 22,810.

- The **Union Cabinet, chaired by Prime Minister Narendra Modi** , has given its approval for Atmanirbhar Bharat Rojgar Yojana.
- With this scheme, the government aims to incentivise the creation of new employment opportunities.
- Cabinet has approved an expenditure of Rs 1,584 crore for the current financial year and **Rs 22,810 crore** for the entire Scheme period i.e. 2020-2023.

61. Answer: a

Explanation:

The correct answer is **Melbourne**.

Major Tennis tournaments:

S.No.	Tournament	Month	City	Country	Surface	Established
1	Australian Open	January	Melbourne	Australia	Hard (blue)	1905
2	French Open	May - June	Paris	France	Clay (Red)	1891
3	Wimbledon	June - July	London	United Kingdom	Grass (green)	1877
4	US Open	August - September	New York	United States	Hard (blue)	1881

★ Key Points

- Japan's Naomi Osaka defeated Victoria Azarenka of Belarus in the Women's Singles final to win the US Open.
- With this 22-year old Osaka has acquired three major trophies of Tennis.
- She was also the winner of the 2018 US Open and the 2019 Australian Open.
- With this, Naomi has become the first Asian player to win three Grand Slam singles titles and also moved up to number 3 in the world rankings.

62. Answer: a

Explanation:

The correct answer is Companies Act 2013

- A Non-Banking Financial Company (NBFC) is a company registered under the **Companies Act, 1956 or Companies Act, 2013**.
- They are mainly engaged in the business of loans and advances, acquisition of shares/stocks/bonds/debentures/securities issued by Government.
- NBFCs are **not engaged in agricultural activities or industrial activities**.
- NBFC **cannot accept demand deposits**
- NBFCs **do not form part of the payment** and settlement system and cannot issue cheques drawn on itself;
- The deposit insurance facility of **Deposit Insurance and Credit Guarantee Corporation is not available to depositors of NBFCs**.
- The minimum net owned funds of the Company should be **Rs. 2 Crore**.
- NBFCs whose asset size is of **₹ 500 cr or more are considered as systemically important NBFCs**.
- NBFCs are not required to maintain CRR and SLR

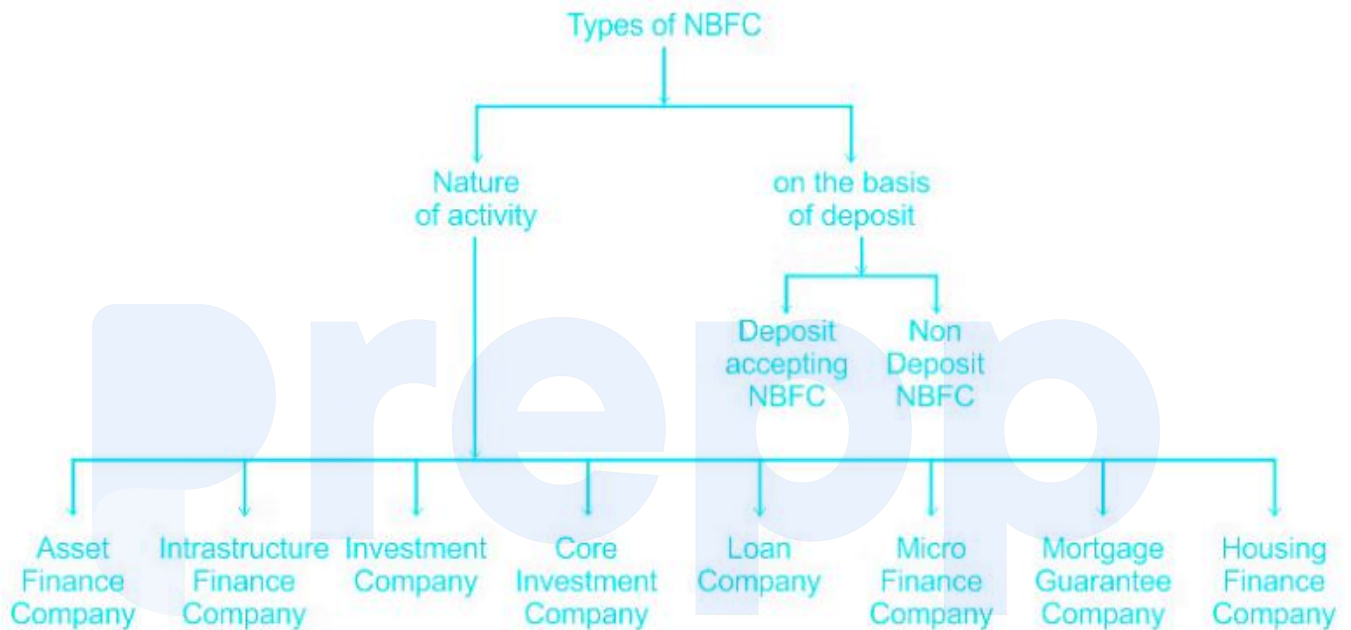
Regulation of NBFC:

1. RBI is the regulator of those NBFC which deal in **lending, accepting deposits, financial leasing**.
2. Nidhi and Chitfund companies are **regulated by the Department of Company Affairs**.
3. **Housing Finance Companies** are regulated by RBI
4. Stockbroking, merchant banking NBFCs are regulated by SEBI.

The following NBFC's are not required to obtain any registration with the Reserve Bank of India:

- Core Investment Companies – (assets are less than 100 crore or public funds not taken)
- Merchant Banking Companies

- Companies which are engaged in the business of stock-broking
- Housing Finance Companies
- Companies engaged in the business of Venture Capital.
- Insurance companies holding a certificate of registration issued by IRDA.
- Chit Fund Companies as defined in the Sec 2 clause (b) of the Chit Fund Act, 1982
- Nidhi Companies



63. Answer: d

Explanation:

The correct answer is Leon Mendonca:

- Goa's 14-year-old **Leon Mendonca** has become India's **67th chess Grandmaster** by winning the third and final norm at a tournament in **Italy** .
- Leon Mendonca achieved his first Grandmaster norm at the Rigo Chess GM Round Robin in October while the second came in Budapest in November and the final one at the Vergani Cup in Italy.
- Chennai player **G Akash** , had in July 2020, become the country's **66th** Grandmaster.

64. Answer: e

Explanation:

The correct answer is Amritsar.

- Sri Guru Ram Das Jee International Airport is named after Guru Ram Das, the fourth Sikh Guru and the founder of Amritsar city.
- It is an international airport about 11 kilometers northwest of the city of Amritsar, India.

★ Additional Information

- Amritsar Airport (IATA: ATQ, ICAO: VIAR), officially known as Sri Guru Ram Dass Jee International Airport, serves the Indian city of Amritsar. It is located 11 kilometers (7 miles) northwest of Amritsar city centre, nearby the village of Rajasansi.
- Not only it serves the Amritsar district, but also Punjab areas, the western districts of Himachal Pradesh, and the southern districts of Jammu and Kashmir.
- Amritsar Airport is also known as Sri Guru Ram Das Ji Airport, the fourth Sikh Guru and the founder of Amritsar city.
- Sri Guru Ram Dass Jee International Airport handled 2,523,794 passengers between April 2018 and March 2019.
- <https://www.amritsarairport.com/>

65. Answer: d

Explanation:

The correct answer is Gulmarg.

★ Key Points

- The second edition of the Khelo India Winter Games is set to be held in **Gulmarg, Jammu and Kashmir** this year.
- The winter sports festival will be held from February 11, 2021, and is expected to last for five days in the resort town of Gulmarg.
- The Winter Games will be organised by the Winter Games Association of J&K under the support of J&K Sports Council and Ministry of Youth Services and Sports.
- Gulmarg, a world-renowned ski town, is an ideal venue to host the Khelo India Winter Games. The games will see various sports including **skiing, snowboarding, snowshoe, ice stock, ice hockey, ice skating and ski mountaineering.**

66. Answer: b

Explanation:

The correct answer is BOB.

★ Key Points

- **Bank of Baroda (BoB)** has launched the **Atmanirbhar Women Scheme** as part of its **Baroda Gold Loan**.
- Under the scheme, the bank is offering loans at a **0.50 percent concession for women.**
- The bank under the gold loan scheme **is also offering agri-gold loans at 0.25 percent concession and for a retail loan at 0.50 percent concession.**
- The scheme was launched at **BOB's Ramamurthy Nagar branch in Bengaluru** and simultaneously in **18 branches** coming under **18 zones in the country, virtually by Sanjiv Chadha, MD & CEO, Bank of Baroda.**
- M Ravindra Rai, head, gold loan vertical, said: " **This Atmanirbhar scheme is exclusively meant for helping women to be self-reliant. "**

★ Important Points

- MD & CEO, Bank of Baroda: Sanjiv Chadha.
- Headquarter: Vadodara.

- The tagline of Bank of Baroda is "India's International Bank".
 - Vijaya Bank and Dena Bank merged with Bank of Baroda (BoB) from April 1 2019 to create the third-largest lender of the country.
-

67. Answer: a

Explanation:

The correct answer is Susan Choi.

- Trust Exercise is a 2019 coming-of-age novel by the American author Susan Choi, published by Henry Holt and Company.
 - Hamlet is the longest play of William Shakespeare.
 - Romeo and Juliet, Macbeth and Julius Caesar also written by William Shakespeare.
-

68. Answer: b

Explanation:

The correct answer is Lockdown Liaisons.

- The book **"Lockdown Liaisons: Leaving and Other Stories"** is written by celebrated author, columnist and publisher Shobhaa De.
 - The book has been launched by bollywood actor **Sonu Sood**.
 - Lockdown Liaisons is a collection of short stories.
 - Lockdown Liaisons, Shobhaa De's series of short stories, looks at how confinement affects different people in different ways.
-

69. Answer: b

Explanation:

The correct answer is China.

- **India** ranked second in terms of the “total” inflow of new migrants to OECD countries during the year 2018.
- China retained the top position as the largest source country, while India overtook Romania to emerge as the second-largest.
- The Organization for Economic Cooperation and Development (OECD) is a forum where the governments of **36 member states** with market economies work with each other.
- **China:**
 - **Capital** – Beijing.
 - **Currency** – Chinese Yuan.
 - **President** – Xi Jinping.
 - **National Sport** – Table Tennis.

70. Answer: c

Explanation:

The correct answer is Japan.

★ Key Points

- **SBI Rupay JCB card** has been launched by SBI, National Payments Corporation India(NPCI), and Japanese company JCB International Co .
- It comes with a dual interface and can be used for both contacts as well as a contactless transaction at ATMs and PoS machines .
- It is a platinum debit card that can be used in India as well as abroad during travel.
- Customers can also use the card for :
 - Online e-commerce sites affiliated with JCB International Co.
 - Availing discounts.
 - Having access to JCB Plaza Lounges present in different cities like Bangkok, Singapore, and Thailand.

- In India, the SBI Rupay platinum JCB Contactless Debit Card can be used to access:
 - Transit Services.
 - Retail Payment.
 - Offline Wallet.

★ Additional Information

- NPCI :
 - **National Payments Corporation of India (NPCI)** is an organization that supports payment and transactions infrastructure in India.
 - It is a joint initiative of the Indian Banking Association and Reserve Bank of India established in 2008 .
 - It is a not for profit company registered under the Companies Act 2013 and has 10 banks as its core promoters.
 - Rupay, Unified Payments Interface, Aadhar based Payment Bridge System, Immediate Payment Service all are the products of NPCI.
 - It is headquartered in Mumbai .
 - Chairman (non-executive): Biswamohan Mahapatra.
 - CEO : Dilip Asbe.
- JCB International Co.
 - **JCB International Co.** or Japan Credit Bureau is a Japanese Credit Card Company.
 - NCPI has partnered with it to support payment and transaction infrastructure in India.
 - Headquarters : Tokyo, Japan.
 - Executive Director : Ichiro Hamakawa.

71. **Answer: a**

Explanation:

The correct answer is 15 years.

- National Rural Livelihood Mission was launched in 2011.

- National Rural Livelihood Mission was launched as Aajeevika – National Rural Livelihoods Mission (NRLM).
- It was renamed as Deen Dayal Antyodaya Yojana – National Livelihoods Mission (DAY-NRLM) in 2015 .
- National Rural Livelihood Mission is an improved version of the earlier Swarnjayanti Gram Swarozgar Yojana (SGSY).
- The program is supported partially by the World Bank.
- It aims to enable the rural poor to increase their household income by means of sustainable livelihood.
- The scheme started out with an agenda to cover 7 Crore rural poor households via Self Help Groups (SHGs).

72. Answer: b

Explanation:

The correct answer is 3%.

- The **Food Safety and Standards Authority of India** has capped the amount of trans fatty acids (TFA) in oils and fats to 3% for 2021 and 2% by 2022 from the current permissible limit of 5% through an amendment to the Food Safety and Standards (Prohibition and Restriction on Sales) Regulations.
- Trans fats are associated with increased risk of heart attacks and death from coronary heart disease.
- As per the **World Health Organisation (WHO)**, approximately 5.4 lakh deaths take place each year globally because of the intake of industrially-produced trans-fatty acids.
- The WHO has also called for the global elimination of trans fats by **2023**.
- **FSSAI:**
 - **Headquarters** – New Delhi.
 - **Founded** – August 2011.
 - **Established under** – Ministry of Health & Family Welfare, Government of India.

73. Answer: b

Explanation:

The correct answer is Raja Chari:

- Raja Jon Vurputoor Chari, an Indian-American US Air Force colonel, has been selected by NASA for its ambitious manned mission to the Moon and beyond.
- Nasa is sending 18 astronauts to the moon's surface for the first time since the 1970s.
- The **18 astronauts**, comprising of **nine men and nine women**, have been chosen for the mission under NASA's Artemis program.
- Chari is among 18 astronauts, who will form the **Artemis Team** and help pave the way for the next lunar missions, including sending the first woman and next man to walk on the lunar surface in 2024.
- The astronauts were selected among **18,000 applicants in 2017** after Nasa announced its Artemis programme.
- Chari was selected by Nasa to join the 2017 Astronaut Candidate Class.
- He has a bachelor's degree in aeronautical engineering and a master's in aeronautics and astronautics.

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74. Answer: a

Explanation:

The correct answer is Pimpri-Chinchwad Municipal Corporation.

★ Key Points

- **Pimpri Chinchwad Municipal Corporation(PCMC)** in Maharashtra's Pune district and **UNDP** have signed an MoU to co-create **India's first social impact Bond**.
- Under this initiative, for the first time in India, a government body will act as an '**outcome funder**' (funding for good social outcomes).

- The bond has been launched with an aim to provide better **health facilities** to the residents of the city.
- Under this bond, the cost will be bore upon by the administration of **Pimpri Chinchwad Municipal Corporation** for the welfare projects.
- Under this bond, the outcome-based targets for the projects can be set and the progress can be tracked.
- PCMC aims to make Pimpri Chinchwad, the most liveable city in India by **2030**.

★ Additional Information

Social impact bonds :

- A **social impact bond(SIB)** is a kind of agreement that involves a **public-private partnership** to fund projects that provide social services.
- It involves the funding of projects by private players who are then provided with the returns by the government, after the achievement of the outlaid targets.
- Hence the government here plays the role of outcome payer or outcome funder.
- The investors of **SIB** focus not only on money-making but also on social development.

75. Answer: b

Explanation:

The correct answer is **Daniil Medvedev**.

- **Daniil Medvedev** defeated the Spanish player Rafael Nadal to win the ATP tournament on November 22, 2020.
- The tournament was held in London.

★ Key Points

- Daniil Medvedev is a Russian tennis player at rank number 4 under ATP ranking.
- Daniil Medvedev was born in Moscow.

- The ATP tournament is the second-highest tier of men's Tennis Tournament after the Grand Slam.
 - The tournament was first held in 1970.
-

76. Answer: a

Explanation:

The correct answer is 15000.

P.M. Rojgar Protsahan Yojana :

- The scheme "Pradhan Mantri Rojgar Protsahan Yojana" (PMRPY) was announced in the Budget for 2016-17.
 - The objective of the scheme is to promote employment generation.
 - The scheme is being implemented by the Ministry of Labour and Employment.
 - The PMRPY scheme is targeted for workers earning wages upto Rs. 15,000/- per month.
-

77. Answer: a

Explanation:

The correct answer is Ministry of Information and Broadcasting.

In News -

- The government has brought video streaming over-the-top (OTT) platforms such as Netflix, Amazon's Prime Video, Hotstar, and others under the ambit of the Ministry of Information and Broadcasting.

★ Important Points

- OTT, or over-the-top platforms, are audio and video hosting and streaming services which started out as content hosting platforms, but soon branched

out into the production and release of short movies, feature films, documentaries and web-series themselves.

- These platforms offer a range of content and use artificial intelligence to suggest users the content they are likely to view based on their past viewership on the platform.
- So far in India, there are no laws or rules regulating OTT platforms as it is a relatively new medium of entertainment.

78. **Answer: a**

Explanation:

The correct answer is **A i.e. Ministry of Agriculture & Farmers.**

- **Union Minister of Agriculture & Farmers' Welfare Shri Narendra Singh Tomar** launched the **Sahakar Cooptube NCDC Channel**, a new initiative by **National Cooperative Development Corporation (NCDC)**.
- During the launch event the minister also rolled out guidance videos on formation and registration.
- As part of the initiative, 18 regional training centres and 45 training modules for primary cooperatives were launched.
- The **NCDC will run these training centres across the country**, along with the Laxman Rao Inamdar National Academy for Cooperative Research and Development (LINAC).

79. **Answer: e**

Explanation:

The correct answer is **Shivalik Mercantile Co-operative Bank**.

★ **Key Points**

- Shivalik Mercantile Co-operative Bank (SMCB) is the **first Urban Co-operative bank that has received in-principal approval from RBI to become Small Finance Bank.**
- The bank will begin its banking operations from **April 2021 onwards.**
- The name of " **Shivalik Mercantile Co-operative Bank** " will change to " **Shivalik Small Finance Bank** ".
- **About Small Finance Banks-**
 - These were created by the **Reserve Bank of India** under the guidance of the **Indian government.**
 - These are governed by the provisions of the **RBI Act, 1934, and Foreign Exchange Management Act, 1999 (FEMA).**
 - They are **licensed under Section 22 of the Banking Regulation Act, 1949.**
 - Small Finance Banks was established on the recommendations of the **NachiketMor Committee .**
 - The minimum **paid-up capital for small finance banks is Rs. 200 crore**
- The objective of these banks is-
 - Provide basic banking services which include- **accepting deposits and lending to underserved sections of customers, including small business units, small and marginal farmers, micro and small industries, and even entities in the unorganized sector.**
 - To provide **financial Inclusion in rural and semi-urban areas.**



Additional Information

- MD and CEO of Shivalik Mercantile Co-operative- **Bank-Suveer Kumar Gupta.**
- The Reserve Bank of India is **India's central bank.**
 - Governor- **Shaktikanta Das (as of Jan 2021)**
 - It **commenced its operations on 1 April 1935 in accordance with the Reserve Bank of India Act, 1934.**
 - It was **nationalized on 1 January 1949.**

80. Answer: a

Explanation:

The correct answer is TransUnion CIBIL Limited.

- SIDBI has launched a comprehensive financial education and one-stop knowledge platform for “MSMESaksham” in partnership with TransUnion CIBIL Limited.
- This partnership would guide those MSMEs which are seeking quick access to finance and that would support them in managing their credit obligations.
- MSMESaksham portal is focused on **two key pillars of financial knowledge and access to credit**.
- It would also have a consolidated list of all the schemes that are launched by the Centre and state governments for MSMEs.
- This would be a knowledge hub with informative articles, business insights to help entrepreneurs and business owners start or grow businesses.
- MSMEs would be guided across their credit lifecycle, from availing credit to start and grow their businesses. It would also be helpful to manage credit lines to sustain and build the structural strength of the business. It is also expected to ensure timely closures and renewals of credit facilities.
- MSMESaksham would take into consideration the extensive network of MSMEs by SIDBI as well as information and insights from TransUnion CIBIL. This would help in creating an educational ecosystem to build structurally strong MSMEs.
- **SIDBI – Small Industries Development Bank of India**
- **SIDBI presently acts as the Principal Financial Institution for the Promotion, Financing and Development of the Micro, Small and Medium Enterprise (MSME) sector and also co-ordinates the functions of the institutions engaged in similar activities.**
- SIDBI Chairman and Managing Director – **Mohammad Mustafa**

81. Answer: c

Explanation:

The correct answer is Goa.

★ Key Points

- Recently, the Indian Scientific Expedition to Antarctica was flagged off from **Mormugao Port, Goa**.
- It is the **40th edition** of the Indian Scientific Expedition to Antarctica.
- The chartered ice-class vessel **MV Vasily Golovnin** has been chosen for the prestigious 40th Indian Scientific Expedition to Antarctica (ISEA) mission journey and will reach Antarctica in **30 days**.

★ Important Points

- **About expedition -**
 - The expedition journey has **43 members** onboard.
 - India's major fuel supplier, Indian Oil Corporation Ltd. (IOCL) has supplied **Jet A1 fuel, lubes, and Marine Gas Oil (MGO)** for the mission.
 - Apart from its scientific mission, this expedition shall carry out the humanitarian responsibility of bringing back the 48-strong winter crew from their **15-month tenure**.
 - It will also provide assistance in resupply the **bases with food, fuel, provisions, and spares for operations and maintenance of life support systems**.

★ Additional Information

State	Capital	CM	Governors
Karnataka	Bengaluru	Basavaraj Bommai	Thawar Chand Gehlot
Kerala	Thiruvananthapuram	Pinarayi Vijayan	Arif Mohammad Khan
Goa	Panaji	Pramod Sawant	Bhagat Singh Koshyari
Gujarat	Gandhinagar	Bhupendrabhai Patel	Acharya Devrvar
Telangana	Hyderabad	K. Chandrashekar Rao	Tamilisai Soundararajan

82. Answer: a

Explanation:

The correct answer is World Bank.

- **Department of Investment and Public Asset Management (DIPAM)** signed an agreement with World Bank.
- Under the agreement, World Bank is **to provide advisory services to DIPAM for asset monetization**, said Ministry of Finance in an official release.
- DIPAM is mandated with facilitating monetization of non-core assets of government CPSEs under strategic disinvestment or closure and enemy property.
- **World Bank:**
 - **Headquarters:** Washington D.C., U.S.
 - **Found:** July 1944
 - **President:** David Malpass

83. Answer: c

Explanation:

Option 3 is the correct answer.

★ Important Points

Pradhan Mantri Shram Yogi Mandhan (PM-SYM) Yojana:

- Launched by Prime Minister Narendra Modi on March 5, at Vastrapur in Gandhinagar, Gujarat.
- The national pension scheme for workers and laborers of the **unorganized sector** was announced in the interim Budget 2019.
- It will provide a monthly pension of Rs. 3000 to the employees of **the unorganized sector** after 60.
- It is especially for the unorganized sector workers with an income of less than Rs 15,000.

- Under the scheme, the workers will be able to earn Rs 3000 after attaining the age of 60 years.
-

84. Answer: c

Explanation:

The correct answer is **Qatar**.

- India and **Qatar** have decided to create a special **Task-Force** to further facilitate investments by **Qatar Investment Authority** into India.
 - Prime Minister Narendra Modi while speaking on the telephone with **Tamim Bin Hamad Al-Thani, Amir of Qatar** also resolved to explore Qatari investments in the entire energy value-chain in India.
 - **Qatar:**
 - **Capital** – Doha.
 - **Currency** – Qatari riyal.
 - **Qatar National Sport** – Football.
-

85. Answer: c

Explanation:

The correct answer is **HDFC ERGO General Insurance Company**.

- **HDFC ERGO General Insurance Company** has tied up with **NSDL Payments Bank Limited**.
 - It will offer a range of general insurance products to the bank's customers.
 - The partnership aims to bring together the deep distribution network of **NSDL Payments Bank** and the strong innovation pipeline of **HDFC ERGO** to contribute towards financial inclusion in the country.
-

86. Answer: c

Explanation:

The correct answer is 'Developing farm-based water conservation'.

★ Key Points

- Let's have a look at the last line of the passage:
 - 'Thus, several ways to deal with the problem of water shortage in India include harvesting rainwater, watershed management, and river interlinking.'
- After a complete analysis of the above statement, it can be concluded that **developing farm-based water conservation is not one of the several ways to deal water shortage in India.**
- Therefore, 'Developing farm-based water conservation' is the correct answer.

★ Additional Information

- Let's have a look at some words from the passage:

Word	Synonym
Developing	Growing
Conservation	Preservation
Shortage	Scarcity

87. Answer: a

Explanation:

The correct answer is 'A'.

★ Key Points

- In the first option:
 - The noun following the phrase '**one of the**' is always a **plural noun** , whereas the use of verbs as singular or plural will entirely depend upon the subject of the statement, i.e. **singular verb for singular subject and plural verb for the plural subject** .
 - **Example:** *Pistachio is one of the few flavors that appeal to me.*
 - **That** acts as the subject for the verb '**appeal**' , and **that** in this sentence refers to flavors (plural noun) and thus, **appeal (plural verb)** is used.
 - Hence, an error lies in the first option.
 - Use of '**is**' in part A is incorrect.
 - A plural helping verb '**are**' is needed in this part.
- Therefore, 'A ' is the correct answer .

Correct sentence: *India is one of the eight countries which **are** seriously facing a sharp increase in water crisis that threatens humans, while a huge percentage of the world has no access to sanitation and clean water.*

★ Additional Information

- Let's have a look at the **SYNONYM** of the words from the passage:

Word	Synonym
Sharp	Keen
Crisis	Catastrophe
Access	Ingress

88. Answer: d

Explanation:

The correct answer is '**Overgrazing**' .

★ Key Points

- Let's have a look at the fifth line of the passage:
 - 'Additionally, overpopulation and pollution have also been a cause of water poverty in India.'
- After a complete analysis of the above statement, it can be concluded that **overgrazing is not one of the causes for water poverty in India.**
- Therefore, 'Overgrazing' is the correct answer .

★ Additional Information

- Let's have a look at the SYNONYM of the words from the passage:

Word	Synonym
Overgrazing	Pasturing
Causes	Roots
Poverty	Penury

89. Answer: d

Explanation:

The correct answer is 'D'.

★ Key Points

- In the fourth option:
 - It appears that the use of a preposition **at** is incorrect in this context.
 - Generally speaking **at** is used to describe an **exact** location or **time**.
 - **Example:** *I will meet you **at** the library.* (the exact place you will meet)
 - It should be replaced by a preposition '**in**' .
 - **Example:** *Please meet me **in** the library.* (in refers to inside the library)

- We can also use **in** to talk about time and place.
- Therefore, 'D' is the correct answer .

Correct sentence: *India is the seventh-largest country in the world by geographical area which is located **in** South Asia.*

★ Additional Information

- A **preposition** is a word or group of words used before a noun, pronoun, or noun phrase to show direction, time, place, location, spatial relationships, or to introduce an object.
- **Prepositions** in English are highly idiomatic.
- To refer to a direction, use the prepositions "*to*," "*in*," "*into*," "*on*," and "*onto*."
 - **Example:** *She drove **to** the store.*
 - Don't ring the doorbell. Come right **in(to)** the house.*

90. Answer: c

Explanation:

The correct answer is 'Healthcare '.

★ Key Points

- Let's have a look at the first line of the last paragraph of the passage:
 - *'The Union Budget, to be presented by Finance Minister Nirmala Sitharaman on Monday, is expected to increase spending on healthcare, raise levies on a range of imported goods, and likely introduce a Covid-19 cess.'*
- After a complete analysis of the above statement, it can be concluded that **healthcare sector is expected to have more spending according to Union Budget.**
- Therefore, 'Healthcare ' is the correct answer .

★ Additional Information

- Let's have a look at some words from the passage:

Word	Meaning
Sector	an area or portion that is distinct from others
Expected	regarded as likely; anticipated
Budget	an estimation of revenue and expenses over a specified future period of time and is usually compiled and re-evaluated on a periodic basis

91. Answer: a

Explanation:

The correct answer is 'Pulled down '.

★ Key Points

- The given lines are explaining how the economy of India has been affected due to the coronavirus pandemic and the weeks-long nationwide lockdown.
- We need a phrase whose meaning is similar to '**demolish**' or '**destroy**' in this context.
- Lets us see the first option:
 - The meaning of the phrase '**Pulled down**' is *destroyed*.
 - **Example:** *It is easier to **pull down** than build.*
 - Therefore, the first option is correct.
- Lets us see the second option:
 - The meaning of the phrase 'Pulled on' is *inhaled deeply while smoking a pipe, cigarette, or cigar*.
 - **Example:** *She **pulled on** her cigarette and blew the smoke at him.*
 - Therefore, the second option is incorrect.
- Lets us see the third option:
 - The meaning of the phrase 'Pulled for' is *to say or show that one hopes (someone or something) will succeed, get well, etc.*
 - **Example:** *I'm **pulling for** the home team.*
 - Therefore, the third option is incorrect.

- Lets us see the fourth option:
 - The meaning of the phrase 'Pulled in' is *to arrive in a place, or to enter a place.*
 - Example: *The train from Paris was just **pulling in**.*
 - Therefore, the fourth option is incorrect.
- Lets us see the fifth option:
 - The meaning of the phrase 'Pulled up' is *to bring to a stop.*
 - Example: *The jockey tried to **pull up** the apparently injured horse.*
 - Therefore, the fifth option is incorrect.
- Therefore, 'Pulled down' is the correct answer .

Correct sentence : *India's economy could contract 7.7 percent in the financial year that ends on March 31, **pulled down** mainly by the coronavirus pandemic and the weeks-long nationwide lockdown to contain the disease, Chief Economic Advisor Krishnamurthy Subramanian has estimated in the Economic Survey 2020-21, tabled in Parliament on Friday.*

★ Additional Information

- Let's have a look at some words from the passage:

Word	Meaning
Contract	a written or spoken agreement, especially one concerning employment, sales, or tenancy, that is intended to be enforceable by law
Financial	regarded as likely; anticipated
Tabled	submitted, put forward

92. Answer: c

Explanation:

The correct answer is 'Triggered' .

★ Key Points

- Lets us see the meaning of the word '**Spurred**':
 - **Spurred**: to encourage an activity or development or make it happen faster
 - Example: ***Spurred** (on) by her early success, she went on to write four more novels in rapid succession.*
- Now Lets us see the meanings of all words given in options:

Word	Meaning
Disapproved	the past tense of the verb ' Disapprove ' which means to have or express an unfavourable opinion
Backfired	the past tense of the verb ' Backfire ' which means to have an opposite and undesirable effect to what was intended
Triggered	the past tense of the verb ' Trigger ' which means to fasten the rate of the happening of something
Disclosed	the past tense of the verb ' Disclose ' which means to make (secret or new information) known

- Therefore, the word that is close to 'spurred' highlighted in the passage given above is '**Triggered**'.
- Hence, the correct answer is '**Triggered**'.

★ Additional Information

- Let's have a look at the **ANTONYM** of words from the passage:

Word	Antonym
Disapproved	Approved
Backfired	Succeed
Disclosed	Concealed

93. Answer: b

Explanation:

The correct answer is 'Lack in the number of required air monitoring stations'.

★ Key Points

- Let's have a look at the second line of the first paragraph of the passage:
 - 'This implies we have less than 5 percent of the recommended number of air monitoring stations. This inadequacy is a hindrance to policymaking, harming the potential to generate solutions.'*
- After a complete analysis of the above statement, it can be concluded that ***lack in the number of required air monitoring stations is causing hindrance in policy making to control air pollution.***
- Therefore, 'Lack in the number of required air monitoring stations' is the correct answer.

★ Additional Information

- Now let us see the SYNO NYM of the following words :

Word	Synonym
Lack	Absence
Hindrance	Impediment
Control	Curb

94. Answer: c

Explanation:

The correct answer is 'Industrial location'.

★ Key Points

- Let's have a look at the fifth line of the first paragraph of the passage:
 - *'Accurate computation of air quality not only requires combining existing air monitoring infrastructure with satellite data but also factoring in human activities such as traffic, construction, garbage burning, industrial source apportionment, and population density.'*
- After a complete analysis of the above statement, it can be concluded that ***Industrial location is not one of the human activities that affects accurate computation of air quality.***
- Therefore, 'Industrial location' is the correct answer.

★ Additional Information

- Now let us see the SYNO NYM of the following words :

Word	Synonym
Affect	Influence
Accurate	Correct
Computation	Calculation

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95. Answer: b

Explanation:

The correct answer is **'It provides a distributed coverage of high spatiotemporal resolution in near real time'**.

★ Key Points

- Let's have a look at the last line of the first paragraph of the passage:
 - *'The advantage of such an approach is that it provides a distributed coverage of high spatiotemporal resolution in near real time.'*

- After a complete analysis of the above statement, *it can be concluded that the advantage of accurately computing a geospatial interpolation of air quality data is that it provides a distributed coverage of high spatiotemporal resolution in near real time.*
- Therefore, ' It provides a distributed coverage of high spatiotemporal resolution in near real time ' is the correct answer .

★ Additional Information

- Now let us see the **meaning** of the following words :

Word	Meaning
Geospatial	relating to information that identifies where particular features are on the earth's surface, such as oceans and mountains
Interpolation	a statistical method by which related known values are used to estimate an unknown price or potential yield of a security
Real time	the actual time during which a process or event occurs

96. Answer: e

Explanation:

The correct answer is 'Analytical '.

★ Key Points

- The given passage is about **how Artificial Intelligence can help improve air quality.**
- The characteristic of an **analytical tone** is the presence of reasons or logic/ justifications to support something.
- In this passage, the author tries to analyze an issue, presenting the pros and cons, or compares two or more things and tells you why he feels something is better etc.
- Examples of passages where an analytical tone is used:

- An author stating that he feels something could happen in the future and providing reasons to justify why he feels in that manner
- An analysis of some event in the past-reasons given to explain a certain event, action etc. For example, the author could analyze why India won the last cricket match etc.
- Therefore, 'Analytical' is the correct answer .

★ Additional Information

- Now let us see the meaning of the following words :

Tone	Definition
Diplomatic	In general, a diplomatic tone simply means a softer tone which sounds professional, polite and understanding, creates a good impression and encourages action to be taken.
Apologetic	As the name states, the apologetic tone is used to express remorse or guilt regarding the mishaps or tragedies that may have occurred in the past.
Dogmatic	When the author is assertive regarding his opinions, he uses a dogmatic tone to convey his viewpoint
Sarcastic	Sarcastic tone conveys a meaning that is exactly opposite to the actual meaning. This may be sometimes confused with humourous, but often sarcasm is used for topics that the author is not much in favour of

97. Answer: a

Explanation:

The correct answer is 'stark, clear'.

★ Key Points

- For 1st blank, we need a word whose meaning is similar to '**clear**'.
- Let us look at the meaning of words given in the **first option** :
 - Stark: empty, simple, clear, plain, transparent or crystal clear
 - Example: *Staying at Katie and Bills house was a **stark** reminder of what would be missing in her life with Alex.*
 - **Clear**: easily seen through
 - **Example**: *The **clear** glass walls of the aquarium's giant ocean tank.*
 - Hence, we can infer that these two words are **synonyms** of each other.
- Therefore, this option is correct and the correct set of words to fill the 1st blank is '**stark, clear**'.
- Let us look at the meaning of the word given in the **second option** :
 - Opaque: easily seen through, not transparent or translucent, unclear
 - Example: *The problem remains **opaque** despite explanations.*
 - Hence, we can infer that '**opaque**' is the antonym of the word '**transparent**'.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the **third option** :
 - **Stark** and **Clear** are similar in meaning and **Opaque** is opposite in meaning to these words.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the **fourth option** :
 - There are many meanings of the word '**Stark**' like *sharp, crisp, clear, complete and absolute.*
 - So, it is incorrect to use this word without understanding the context.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the **fifth option** :
 - **Clear** and **Opaque** are opposite in meaning.
- Therefore, this option is incorrect.

★ Additional Information

- Now let us see the **ANTONYMS** of the following words :

Word	Antonym
Stark	Fuzzy, indistinct
Clear	Unclear
Opaque	Transparent

98. Answer: e

Explanation:

The correct answer is 'sane'.

★ Key Points

- For 2nd blank, we need a word whose meaning is similar to '**sane**', 'rational' or '**of sound mind**'.
- Let us look at the meaning of the word given in the first option :
 - Demented: mad, insane, behaving irrationally due to anger, distress, or excitement
 - Example: *He was **demented** due to work pressure.*
 - Hence, we can infer that '**demented**' is opposite in meaning to '**sane**'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the words given in the second option :
 - **Demented** and **sane** are opposite in meaning.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the third option :
 - Rough: not gentle; violent or boisterous, violent, brutal
 - Example: *Pushchairs should be capable of withstanding **rough** treatment.*
 - Demented: mad, insane, behaving irrationally due to anger, distress, or excitement
 - Example: *He was **demented** due to work pressure.*
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the fourth option :

- As already seen, the meanings of 'rough' and 'sane' are contradicting each other.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the fifth option:
 - Sane: of sound mind; not mad or mentally ill
 - Example: *With thinking, we may be beside ourselves in a **sane** sense*
 - Hence, we can infer that the meaning of 'sane' is similar to 'of sound mind'
- Therefore, this option is correct and the correct word to fill the 2nd blank is 'sane'.

★ Additional Information

- Now let us see the ANTONYMS of the following words :

Word	Antonym
Sane	Insane
Demented	Lucid
Rough	Gentle

99. Answer: d

Explanation:

The correct answer is 'annihilation, destruction'.

★ Key Points

- For 3rd blank, we need a word whose meaning is similar to 'demolition'.
- Let us look at the meaning of the word given in the first option :
 - Construction: the act or result of putting different things together
 - Example: *A new hotel is now under **construction**.*
 - Hence, we can infer that 'construction' is not similar to 'demolition'.
- Therefore, this option is incorrect.

- Let us look at the meaning of the word given in the second option :
 - Destruction: the action of destroying something
 - Example: *Unusually high winds left widespread **destruction** over the area.*
 - Hence, we can infer that the meaning of 'destruction' is similar to '**demolition**' .
 - But we have to look into other options also that can be more suitable.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the third option :
 - **Destruction** and **Annihilation** are similar in meaning to '**demolition**' and **Construction** is opposite in meaning to '**demolition**' .
 - **Annihilation**: the state or fact of being completely destroyed or obliterated
 - Example: *The practical **annihilation** of the old Right in the elections of 1876 opened a new parliamentary era.*
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the fourth option :
 - **Annihilation** and **Destruction** are similar in meaning to '**demolition**'.
 - Hence, we can infer that these two words are synonyms of each other.
- Therefore, this option is correct and the correct set of words to fill the 3rd blank is 'annihilation, destruction' .
- Let us look at the meaning of words given in the fifth option :
 - Construction and **Annihilation** are opposite in meaning.
- Therefore, this option is incorrect.

★ Additional Information

- Now let us see the **SYNONYM** of the following words :

Word	Synonym
Construction	Establishment
Demolition	Destruction
Annihilation	Destruction

100. Answer: c

Explanation:

The correct answer is 'solidarity, cohesion'.

★ Key Points

- For 4th blank, we need a word whose meaning is similar to 'unity'.
- Let us look at the meaning of words given in the first option :
 - Confusion: uncertainty about what is happening, intended, or required
 - Example: *She'd hoped sleep would remove some of her **confusion** from her night.*
 - Cohesion: the action or fact of forming a united whole
 - Example: *There was a lack of **cohesion** in the rebel army.*
 - Hence, we can infer that the meaning of 'cohesion' is similar to 'demolition' but 'confusion' is not similar to 'unity'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the second option :
 - We can infer that the meaning of 'cohesion' is similar to 'unity'.
 - But we have to look into other options also that can be more suitable.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the third option :
 - Solidarity: unity or agreement of feeling or action, especially among individuals with a common interest; mutual support within a group
 - Example: *Factory workers voiced **solidarity** with the striking students.*
 - **Solidarity** and **Cohesion** are similar in meaning to 'unity' and the correct set of words to fill the 4th blank are 'solidarity, cohesion'.
- Therefore, this option is correct.
- Let us look at the meaning of the word given in the fourth option :
 - The meaning of the word '**confusion**' is not similar to 'unity'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the fifth option :
 - We can infer that the meaning of 'solidarity' is similar to 'unity'.
 - But we have to look into other options also that can be more suitable.

- Therefore, this option is incorrect.

★ Additional Information

- Now let us see the SYNO NYM of the following words :

Word	Synonym
Confusion	Perplexity
Solidarity	Unity
Cohesion	Unity

101. Answer: b

Explanation:

The correct answer is 'prediction'.

★ Key Points

- For 5th blank, we need a word whose meaning is similar to 'forecast'.
- Let us look at the meaning of the word given in the first option :
 - Plummet: a fall or drop in something
 - Example: A **plummet** in milk prices was seen in the year 1989.
 - Hence, we can infer that the meaning of 'plummet' is not similar to 'forecast'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the second option :
 - **Prediction:** a thing predicted; a forecast
 - Example: The carefully recorded **prediction** was verified by the siege of 1529.
 - We can infer that the meaning of 'prediction' is similar to 'forecast'.
 - The correct set of words to fill the 5th blank is 'prediction'.
- Therefore, this option is correct.
- Let us look at the meaning of words given in the third option :

- Triumph: a great victory or achievement
 - Example: *The victorious army returned in **triumph**.*
- The meaning of the words '**triumph**' and '**plummet**' are dissimilar to '**forecast**' and '**prediction**' is similar in meaning to 'forecast'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the fourth option :
 - The meaning of the word 'plummet' is not similar to 'forecast' and the word 'prediction' is similar to 'forecast'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the fifth option :
 - We can infer that the meaning of 'triumph' is not similar to 'forecast'.
- Therefore, this option is incorrect.

★ Additional Information

- Now let us see the SYNO NYM of the following words :

Word	Synonym
Plummet	Plunge
Prediction	Forecast
Triumph	Victory

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102. Answer: c

Explanation:

The correct answer is 'paradox'.

★ Key Points

- For 6th blank, we need a word whose meaning is similar to 'contradiction'.
- Let us look at the meaning of words given in the first option :
 - Paradox: a seemingly absurd or contradictory statement or proposition which when investigated may prove to be well-founded or true

- Example: *The uncertainty principle leads to all sorts of **paradoxes**, like the particles being in two places at once.*
- Redux:brought back, restored
 - Example:*He returned home with his bride **redux**.*
- Coarse:rude or vulgar
 - Example:*He is a man of **coarse** speech.*
- Hence, we can infer that the meaning of '**paradox**' is similar to '**contradiction**' but the meanings of '**redux**' and '**coarse**' are not similar to '**contradiction**'.
- Therefore,this option is incorrect.
- Let us look at the meaning of the word given in the second option :
 - We can infer thatthe meaning of 'coarse' is not similar to 'contradiction'.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the thirdoption :
 - We can infer thatthe meaning of 'paradox' is not similar to 'contradiction'.
- Therefore, this option is correct and the correct word to fill the 6th blank is '**paradox**'.
- Let us look at the meaning of the word given in the fourthoption :
 - We can infer that the meaning of 'paradox' is similar to 'contradiction' but the meanings of 'redux' is not similar to 'contradiction'
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the fifthoption :
 - We can infer that the meanings of 'redux' and 'coarse' are not similar to 'contradiction'.
- Therefore, this option is incorrect.

★ Additional Information

- Now let us see the ANTONYMS of the following words :

Word	Antonym
Paradox	Precept
Redux	Unrevived
Coarse	Refined, Inoffensive

103. Answer: c

Explanation:

The correct answer is **beliefs, assumptions** '.

★ Key Points

- For 7th blank, we need a word whose meaning is similar to 'suppositions'.
- Let us look at the meaning of words given in the first option :
 - Dearth: a scarcity or lack of something
 - Example: *There was a **dearth** of evidence.*
 - Beliefs: something that is accepted, considered to be true, or held as an opinion, assumptions, theories
 - Example: *His **beliefs** in extraterrestrial life are beyond imagination.*
 - Hence, we can infer that the meaning of 'beliefs' is similar to 'suppositions' but the meanings of 'dearth' is not similar to 'suppositions'.
- Therefore, this option is incorrect.
- Let us look at the meaning of the word given in the second option :
 - We can infer that the meaning of 'beliefs' is similar to 'suppositions'.
 - But we have to look into other options also that can be more suitable.
- Therefore, this option is incorrect.
- Let us look at the meaning of words given in the third option :
 - We can infer that the meaning of 'paradox' is not similar to 'contradiction'.
- Therefore, this option is correct and the correct word to fill the 6th blank is 'paradox'.

- Let us look at the meaning of the word given in the fourth option :
 - **Assumptions:** a thing that is accepted as true or as certain to happen, without proof
 - **Example:** *We shall make **assumptions** that he will visit us.*
 - We can infer that the meaning of 'beliefs' and 'assumptions' are similar to 'suppositions'.
 - The correct set of words to fill in the 7th blank is 'beliefs, assumptions'.
- Therefore, this option is correct.
- Let us look at the meaning of words given in the fifth option :
 - We can infer that the meanings of 'beliefs' and '**assumptions**' are similar to 'suppositions' but the meanings of 'dearth' is not similar to 'suppositions'.
- Therefore, this option is incorrect.

★ Additional Information

- Now let us see the ANTONYMS of the following words :

Word	Antonym
Beliefs	Disbeliefs
Assumptions	Disbeliefs, facts
Dearth	Abundance

104. Answer: b

Explanation:

The correct answer is **Only 2**.

★ Key Points

- The phrase which we should choose to connect the sentences is **only 2**.
 - The word '**however**' is used when we try to say 'but despite that'. So, the phrase '**However some issues**' would join the sentences appropriately.

- ' **When** ' is used to express 'during the time that'. Therefore, we should not choose the phrase ' **When some issues** ' to join the given sentences.
- ' **Whenever** ' means 'at whatever time'. So, the phrase ' **Whenever social issues** ' is not appropriate for the sentences.

The sentence after using the phrase is : *Social issues are distinguished from economic issues; however, some issues have both social and economic aspects .*

★ Additional Information

Distinguished : treated as different

Aspect : feature or a particular part

105. Answer: b

Explanation:

The correct answer is **only 2** .

★ Key Points

- The phrase which we can use to connect the given sentences is **only 2** .
 - When ' **even if** ' is used, we try to express 'despite the fact that'. Therefore, ' **even if** ' should be chosen to form a grammatically and contextually appropriate sentence.
- ' **If** ' is used to introduce a conditional clause and to form a conditional sentence. Clearly, we should not choose ' **if** ' to connect the given sentences.
- ' **When** ' is used to express 'during the time'. So, we cannot choose ' **when** ' to form a grammatically and contextually correct sentence.

The sentence after using the phrase is : *You should always help others **even if they are** not your friends .*

★ Additional Information

The sentence which expresses a condition is called a conditional sentence .

- Example: *If she comes, her friend will inform us .*

106. Answer: a

Explanation:

The correct answer is 'Both 1 and 3'.

★ Key Points

- The phrases which we should use to connect the statements is both 1 and 3.
 - The second given statement expresses the reason behind someone's death.
 - So, the connectors '**as a consequence**' and '**as a result**' needs to be used to join the two statements. Using these connectors answers the question "how did Varun die?"
- 'in contrast' is used to express difference. Hence it cannot be used to join the given statements.

The sentence after using the phrases is : Varun died as a consequence/as a result of an accident.

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107. Answer: b

Explanation:

The correct answer is 'Only 2'.

★ Key Points

- The word which we should use to connect the statements is only 2.
 - The given statements can be joined by the word '**wherever**'. It is an emphatic for of where which means it answers the question pertaining to place (where).
- 'Whenever' and 'until' are commonly used subordinators related to time.

The sentence after using the word 'wherever' is : I will follow you wherever you go . or Wherever you go I will follow you.

108. Answer: a

Explanation:

The correct answer is option 1.

The passage discusses the positive effects of television.

Bellicose means demonstrating aggression and willingness to fight.

Boastful means showing excessive pride and self-satisfaction in one's achievements, possessions, or abilities.

Sarcastic means marked by or given to using irony in order to mock or convey contempt.

So, option 1 is correct.

109. Answer: b

Explanation:

The correct answer is option 2.

Incendiary means to incite people in a negative or positive direction.

Speculative means hypothetical things and expert opinions.

Introspective means to self-examine and reflect upon one's actions and feelings.

Acerbic means dislike or disapproval for something or someone in a harsh way.

Contentious means causing or likely to cause an argument; controversial.

According to the meanings, option 2 is correct.

110. Answer: b

Explanation:

The correct answer is option 2.

Enigmatic means difficult to interpret or understand; mysterious.

Inquisitive means having or showing an interest in learning things; curious.

Profound means very great or intense.

Subtle means delicately complex and understated.

Perplexing means completely baffled; very puzzled.

According to the meanings, the answer is option 2.

111. Answer: c

Explanation:

The correct answer is option 3.

Uncanny means strange or mysterious, especially in an unsettling way.

Imbecile means stupid; idiotic.

Insightful means having or showing an accurate and deep understanding; perceptive.

Inept means having or showing no skill; clumsy.

Asinine means are extremely stupid or foolish.

According to the meanings, option 3 is correct.

112. **Answer: c**

Explanation:

The correct answer is option 3 i.e. watchful.



Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options–

- Vigilant: *keeping careful watch for possible danger or difficulties*
- Forgetful: apt or likely not to remember
- Naive: (of a person or action) showing a lack of experience, wisdom, or judgement
- Watchful: *Observing and watching something very closely*
- Negligent: Failing to take proper care of something

Therefore, from the given options, the best alternative for the emboldened word is 'watchful'.

113. Answer: c

Explanation:

The correct answer is **option 3 i.e. male-dominated.**



Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

- Patriarchal: *A patriarchal system refers to one that has male members at all the important aspects of the system*

- Matriarchal: A matriarchal system is one that has females at all important aspects of the system
- Female dominated: Refers to a system that has women in all important positions
- Male-dominated: *A system which has males in all important positions*
- Democratic: Relating to or supporting democracy or its principles

Therefore, from the given options, the best alternative for the emboldened word is 'male-dominated'.

114. Answer: c

Explanation:

The correct answer is option 3 i.e. magnanimous.

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Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

- Generous: *showing a readiness to give more of something, especially money, than is strictly necessary or expected.*

- Narcissistic: having or showing an excessive interest in or admiration of oneself and one's physical appearance.
- Miserly: of or characteristic of a miser; ungenerous; stingy.
- Magnanimous: *generous or forgiving, especially towards a rival or less powerful person.*
- Malevolent: having or showing a wish to do evil to others.

Therefore, from the given options, the best alternative for the emboldened word is 'magnanimous'.

115. Answer: b

Explanation:

The correct sentence is Q.

The first sentence must introduce a new concept without any prior reference and the best option for this is sentence S which introduces the discussion on diamonds. The second sentence is given and this extends the discussion by naming the interesting aspects of diamonds. The third sentence must either continue this description or introduce a related sub-topic and here, since there is one more sentence T which describes diamonds, we include that as the third sentence. Because the third sentence talks about diamond hardness, the fourth sentence can continue to elaborate on this and this is achieved in sentence P. Hence this is the fourth sentence. The fifth sentence is given and it introduces the importance of diamonds in history which is a new sub-topic. Sentence 6 must extend this sub-topic and this is done in Q where details about historic events and conquests are mentioned, hence Q is sentence 6. Sentence R is the last sentence because it includes the word 'also' which indicates that sentence 6 must have already introduced other historic events, which is the case.

So the correct order of sentences is **S2TP5QR**. Thus, option 2 is the correct answer.

116. Answer: c

Explanation:

The given sentence shows the use of conjunctions, indicating that they are meaningfully related to each other.

Out of the given sentences, **only sentence T introduces the topic i.e. 'Anorexia'** while others give more information about it.

So, there are two sentences which are starting with sentence P. Let us take a look at both of them.

Sentence R explains about someone who is suffering from the disorder.

Out of the given options, option 3 reflects this order i.e. PR.

Therefore, the correct answer is option 3.

117. Answer: e

Explanation:

The correct answer is 'A-E'

★ Key Points

- Let us know the **meanings** of the words marked bold:
- **connected**- to be joined to something.
- **survived**- to continue to live or exist in after a difficult or dangerous situation.
- **strong**- tough reasons that can't be neglected or missed.
- **standalone**- It is used about computer machinery or programs that are able to operate without the support of any other machinery or programs.
- **debated**- the most discussed thing.
- By making the **interchange of the required words**, the **complete sentence reads as follows**:
- *The much-discussed and **debated** Electronic Voting Machine in India has **survived** intense scrutiny over its use largely because of one **strong** reason —*

*the fact that this **standalone** single-chip device is not **connected** to any network.*

- The interchanged words gives the proper meaning of the sentence.
- Hence, the **correct answer** is **option (5)**.

118. Answer: b

Explanation:

The correct answer is 'A-C'.

★ Key Points

- Let us know the **meanings** of the words given in bold:
- **unprecedented**- that which has never happened or existed before.
- **learned**- having a lot of knowledge from studying.
- **brave**- having or showing mental or moral strength to face danger, fear, or difficulty.
- **ensue** - to happen after something else as a result of that.
- **track**- the natural path of anything; marks that are left on the ground by a person, an animal or a moving vehicle.
- By making the **interchange of the required words** , the complete sentence reads as follows:
- *Finance Minister Nirmala Sitharaman made a brave effort to make good use of the lessons learned from the unprecedented global health crisis and an ensuing economic setback to put lives and livelihoods back on track.*
- The interchanged words gives the proper meaning of the sentence.
- Hence, the **correct answer** is **option (2)**.

119. Answer: a

Explanation:

The correct answer is 'A-B'.

★ Key Points

- The paragraph is about *how Myanmar's military establishment has wiped out a decade of the country's democratisation process.*
- According to the **first option** , possible pairs to be interchanged are 'A-B'.
- Let us see the meaning of '**Declaring**' and '**Arresting**'.
 - **Declaring** : gerund or present participle which means *to state something publicly and officially or to make something known in a firm, clear way*
 - **Example:** *I was very happy after **declaring** that result to them.*
 - **Arresting**: gerund or present participle which means *to take or keep in custody by authority of law*
 - **Example:** *The cops were there for **arresting** him.*
- Therefore, these two words should be interchanged according to the context.
- According to the **second option** , possible pairs to be interchanged are 'B-C'.
- Let us see the meaning of '**Arresting**' and '**Emergency**'.
 - **Arresting**: gerund or present participle which means *to take or keep in custody by authority of law*
 - **Example:** *The cops were there for **arresting** him.*
 - **Emergency**: a serious, unexpected, and often dangerous situation requiring immediate action
 - **Example:** *It seemed like hours in the **emergency** room before the diagnosis.*
- Therefore, these two words cannot be interchanged according to the context.
- According to the **third option** , possible pairs to be interchanged are 'C-D'.
- Let us see the meaning of '**Emergency**' and '**Concerned**'.
 - **Emergency**: a serious, unexpected, and often dangerous situation requiring immediate action
 - **Example:** *It seemed like hours in the **emergency** room before the diagnosis.*
 - **Concerned**: worried, troubled, or anxious
 - **Example:** *The villagers are **concerned** about burglaries.*
- Therefore, these two words cannot be interchanged according to the context.
- According to the **fourth option** , possible pairs to be interchanged are 'D-E'.
- Let us see the meaning of '**Concerned**' and '**Condemnation**' .

- Concerned: worried, troubled, or anxious
 - Example: *The villagers are concerned about burglaries.*
- **Condemnation:** the expression of very strong disapproval; censure
 - **Example:** *There was strong international **condemnation** of the attack.*
- Therefore, these two words cannot be interchanged according to the context.
- According to the fifth option, possible pairs to be interchanged are 'A-E'.
- Let us see the meaning of 'Declaring' and 'Condemnation'.
 - Declaring : gerund or present participle which means *to state something publicly and officially or to make something known in a firm, clear way*
 - Example: *I was very happy after declaring that result to them.*
 - Condemnation: the expression of very strong disapproval; censure
 - Example: *There was strong international condemnation of the attack.*
- Therefore, these two words cannot be interchanged according to the context.

Correct sentence : By **arresting** President Win Myint, State Counsellor Aung San Suu Kyi and the rest of the ruling National League for Democracy (NLD) leadership, and **declaring** military rule under a state of emergency for at least a year, General Min Aung Hlaing has made it clear that it is the military that is in charge, and he is not particularly concerned about the opposition to or condemnation of the move.

★ Additional Information

- Let us see the SYNONYM of some words from the passage:

Word	Synonym
Declaring	proclaiming
Arresting	apprehending
Emergency	Crisis
Concerned	Worried

120. Answer: d

Explanation:

The correct answer is 'Agriculture '.

★ Key Points

- Let's have a look at the first line of the second paragraph of the passage:
 - "Agriculture has remained the silver lining, while contact-based services, manufacturing, and construction sectors were the worst hit by the COVID-19 pandemic," said the survey.'*
- After a complete analysis of the above statement, it can be concluded that ***agriculture is one of the sectors that is not affected by COVID-19 pandemic according to economic survey.***
- Therefore, 'Agriculture ' is the correct answer .

★ Additional Information

- Let's have a look at some words from the passage:

Word	Meaning
Economic	relating to economics or the economy
Pandemic	prevalent over a whole country or the world
Survey	a general view, examination, or description of someone or something

121. Answer: c

Explanation:

Pattern of the series is:

$$9 \times 2 + 1 = 19$$

$$19 \times 3 + 1 = 58$$

$$58 \times 4 + 1 = 233$$

$$233 \times 5 + 1 = 1166$$

$$1166 \times 6 + 1 = 6997$$

Therefore wrong number in the series is 229.

So, starting with 229, the series will be 229, 459, 1378, 5513.

$\therefore$ The Second term in the 2nd series is 459.

122. Answer: a

Explanation:

Pattern of the series is:

$$78 + 2 = 80$$

$$80 + 3 = 83$$

$$83 + 5 = 88$$

$$88 + 7 = 95$$

$$95 + 11 = 106$$

Therefore wrong number in the series is 104.

So, starting with 104, the series will be 104, 106, 109, 114.

$\therefore$ The Third term in the 2nd series is 109.

★ Confusion Points

There is a possibility with the logic.

Here logic used is prime no. 2,3,5, 7 ,11 But difference given is 2,3,5,7,9

So one can think it is an odd no series and can consider 1st term as the wrong term to make the difference, 1 which is odd

But there is no option for 83 which will be third term in the 2nd series if starting from 79.

123. Answer: e

Explanation:

Pattern of the series is:

$$88 + 2 = 90$$

$$90 + 4 = 94$$

$$94 + 6 = 100$$

$$100 + 8 = 108$$

$$108 + 10 = 118$$

Therefore wrong number in the series is 102.

So, starting with 102, the series will be 102, 104, 108, 114, 122, 132

$\therefore$ The fourth term in the 2nd series is 114.

124. Answer: a

Explanation:

Series : 85, 175, 355, 715, 1380

Pattern of the series is:

$$85 \times 2 + 5 = 175$$

$$175 \times 2 + 5 = 355$$

$$355 \times 2 + 5 = 715$$

$$715 \times 2 + 5 = 1435$$

$\therefore$ The Wrong term in the series is 1380.

$$N = 1380$$

$$\frac{N}{30} + 1 = 47$$

$\therefore$ 47 is a prime number.

125. Answer: c

Explanation:

Calculation:

Let the number of green balls and blue balls present in the bag be 'g' and 'b' respectively

Also, number of red balls = 17

Total number of balls = $(17 + g + b)$

Probability of drawing a red ball = $17/(17 + g + b)$

Probability of drawing a green ball = $g/(17 + g + b)$

Probability of drawing a blue ball = $b/(17 + g + b)$

Now a/q we have

$$\Rightarrow g/(17 + g + b) = 1/7 + 17/(17 + g + b)$$

$$\Rightarrow (g - 17)/(17 + g + b) = 1/7$$

$$\Rightarrow 6g - b = 136 \quad \dots(i)$$

also,

$$\Rightarrow b/(17 + g + b) = 1/21 + 17/(17 + g + b)$$

$$\Rightarrow (b - 17)/(17 + g + b) = 1/21$$

$$\Rightarrow 20b - g = 374 \quad \dots(ii)$$

using equation (i) and (ii), we get

$$g = 26, b = 20$$

$$\therefore \text{Required total number of balls in the bag} = (26 + 20 + 17) = 63$$

126. Answer: c

Explanation:

Calculation:

Let the number of green balls and blue balls present in the bag be 'g' and 'b' respectively

Also, number of red balls = 17

Total number of balls = $(17 + g + b)$

Probability of drawing a red ball = $17/(17 + g + b)$

Probability of drawing a green ball = $g/(17 + g + b)$

Probability of drawing a blue ball = $b/(17 + g + b)$

Now a/q we have

$$\Rightarrow g/(17 + g + b) = 1/7 + 17/(17 + g + b)$$

$$\Rightarrow (g - 17)/(17 + g + b) = 1/7$$

$$\Rightarrow 6g - b = 136 \quad \dots(i)$$

also,

$$\Rightarrow b/(17 + g + b) = 1/21 + 17/(17 + g + b)$$

$$\Rightarrow (b - 17)/(17 + g + b) = 1/21$$

$$\Rightarrow 20b - g = 374 \quad \dots(ii)$$

using equation (i) and (ii), we get

$$g = 26, b = 20$$

$\therefore$ Required number of blue balls = 20

127. Answer: d

Explanation:

From the given pie charts, we have:

$$(N + 5) + N + (N + 20) + 2N = 100$$

$$\Rightarrow N = 15$$

$$\text{Also, } M + 20 + (M + 10) + 40 = 100$$

$$\Rightarrow M = 15$$

Let the total number of cookies sold be x

$$\text{Also, total number of cookies sold by A} = (20/100) \times x = 0.2x$$

$$\text{Also, the number of Butterscotch cookies sold by A} = 110$$

$$\text{So, the number of chocolate cookies sold by A} = 0.2x - 110$$

$$\text{Hence, } 0.2x - 110 = (15/100) \times \text{total number of chocolate cookies} \quad \text{-----(i)}$$

Similarly,

Also, total number of cookies sold by B = $(15/100) \times x = 0.15x$

Also, the number of Butterscotch cookies sold by B = 30

So, the number of chocolate cookies sold by B = $0.15x - 30$

Hence, $0.15x - 30 = (20/100) \times \text{total number of chocolate cookies}$ ----(ii)

Multiply equation (i) by 3,

$\Rightarrow 0.6x - 330 = (45/100) \times \text{total number of chocolate cookies}$ ----(iii)

and equation (ii) by 4:

$\Rightarrow 0.6x - 120 = (80/100) \times \text{total number of chocolate cookies}$ ----(iv)

Subtract equation (iii) from equation (iv)

$\Rightarrow -120 + 330 = (0.8 - 0.45) \times \text{total number of chocolate cookies}$

$\Rightarrow \text{Total number of chocolate cookies} = 210/0.35 = 600$

Also, from the pie chart of total cookies,

$200 = (20/100) \times \text{total cookies}$

$\Rightarrow \text{Total cookies} = 1000$

Hence, we can tabulate the percentage of cookies for each type as:

Company	Chocolate Cookies	Butterscotch flavor cookies	Total Cookies
A	$(15/100) \times 600 = 90$	110	200
B	$(20/100) \times 600 = 120$	30	150
C	$(25/100) \times 600 = 150$	200	$(35/100) \times 1000 = 350$
D	$(40/100) \times 600 = 240$	60	$(30/100) \times 1000 = 300$

$\therefore$ The ratio of chocolate flavor cookies sold by company C to the total cookies sold by D = $150/300 = 1 : 2$

128. Answer: b

Explanation:

From the given pie charts, we have:

$$(N + 5) + N + (N + 20) + 2N = 100$$

$$\Rightarrow N = 15$$

$$\text{Also, } M + 20 + (M + 10) + 40 = 100$$

$$\Rightarrow M = 15$$

Let the total number of cookies sold be x

$$\text{Also, total number of cookies sold by A} = (20/100) \times x = 0.2x$$

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Similarly,

$$\text{Also, total number of cookies sold by B} = (15/100) \times x = 0.15x$$

$$\text{Also, the number of Butterscotch cookies sold by B} = 30$$

$$\text{So, the number of chocolate cookies sold by B} = 0.15x - 30$$

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D	$(40/100) \times 600 = 240$	60	$(30/100) \times 1000 = 300$

$$\text{Total cookies sold by A and B} = 200 + 150 = 350$$

$$\text{Butterscotch cookies sold by C} = 200$$

$$\text{So, the required percentage} = [(350 - 200)/200] \times 100 = 75\%$$

129. Answer: e

Explanation:

From the given pie charts, we have:

$$(N + 5) + N + (N + 20) + 2N = 100$$

$$\Rightarrow N = 15$$

$$\text{Also, } M + 20 + (M + 10) + 40 = 100$$

$$\Rightarrow M = 15$$

Let the total number of cookies sold be x

$$\text{Also, total number of cookies sold by A} = (20/100) \times x = 0.2x$$

$$\text{Also, the number of Butterscotch cookies sold by A} = 110$$

$$\text{So, the number of chocolate cookies sold by A} = 0.2x - 110$$

$$\text{Hence, } 0.2x - 110 = (15/100) \times \text{total number of chocolate cookies} \quad \text{----(i)}$$

Similarly,

$$\text{Also, total number of cookies sold by B} = (15/100) \times x = 0.15x$$

$$\text{Also, the number of Butterscotch cookies sold by B} = 30$$

$$\text{So, the number of chocolate cookies sold by B} = 0.15x - 30$$

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D	$(40/100) \times 600 = 240$	60	$(30/100) \times 1000 = 300$

So, we get:

$$x + 15 = 90$$

$$\Rightarrow x = 75$$

$$\text{Similarly, } y - 25 = 120$$

$$\Rightarrow y = 145$$

$$\therefore x : y = 75 : 145 = 15 : 29$$

130. Answer: b

Explanation:

From the given pie charts, we have:

$$(N + 5) + N + (N + 20) + 2N = 100$$

$$\Rightarrow N = 15$$

$$\text{Also, } M + 20 + (M + 10) + 40 = 100$$

$$\Rightarrow M = 15$$

Let the total number of cookies sold be x

$$\text{Also, total number of cookies sold by A} = \left(\frac{20}{100}\right) \times x = 0.2x$$

$$\text{Also, the number of Butterscotch cookies sold by A} = 110$$

$$\text{So, the number of chocolate cookies sold by A} = 0.2x - 110$$

$$\text{Hence, } 0.2x - 110 = \left(\frac{15}{100}\right) \times \text{total number of chocolate cookies} \quad \text{----(i)}$$

Similarly,

$$\text{Also, total number of cookies sold by B} = \left(\frac{15}{100}\right) \times x = 0.15x$$

$$\text{Also, the number of Butterscotch cookies sold by B} = 30$$

$$\text{So, the number of chocolate cookies sold by B} = 0.15x - 30$$

$$\text{Hence, } 0.15x - 30 = \left(\frac{20}{100}\right) \times \text{total number of chocolate cookies} \quad \text{----(ii)}$$

Multiply equation (i) by 3,

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Hence, we can tabulate the percentage of cookies for each type as:

Company	Chocolate Cookies	Butterscotch flavor cookies	Total Cookies
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D	$(40/100) \times 600 = 240$	60	$(30/100) \times 1000 = 300$

So, total number of chocolate cookies sold by all the companies together = $90 + 120 + 150 + 240 = 600$

And total number of Butterscotch cookies sold by all the companies together = $110 + 30 + 200 + 60 = 400$

$\therefore$ The required percentage (less) = $[(600 - 400)/600] \times 100 = 33.33\%$

131. Answer: d

Explanation:

From the given pie charts, we have:

$$(N + 5) + N + (N + 20) + 2N = 100$$

$$\Rightarrow N = 15$$

$$\text{Also, } M + 20 + (M + 10) + 40 = 100$$

$$\Rightarrow M = 15$$

Let the total number of cookies sold be x

$$\text{Also, total number of cookies sold by A} = (20/100) \times x = 0.2x$$

Also, the number of Butterscotch cookies sold by A = 110

So, the number of chocolate cookies sold by A = $0.2x - 110$

$$\text{Hence, } 0.2x - 110 = (15/100) \times \text{total number of chocolate cookies} \quad \text{-----(i)}$$

Similarly,

$$\text{Also, total number of cookies sold by B} = (15/100) \times x = 0.15x$$

Also, the number of Butterscotch cookies sold by B = 30

So, the number of chocolate cookies sold by B = $0.15x - 30$

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$\Rightarrow \text{Total number of chocolate cookies} = 210/0.35 = 600$

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$\Rightarrow \text{Total cookies} = 1000$

Hence, we can tabulate the percentage of cookies for each type as:

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B	$(20/100) \times 600 = 120$	30	150
C	$(25/100) \times 600 = 150$	200	$(35/100) \times 1000 = 350$
D	$(40/100) \times 600 = 240$	60	$(30/100) \times 1000 = 300$

$\therefore$ The required percentage = $[60/(120 + 240)] \times 100 = 16.67\%$

132. Answer: d

Explanation:

Let the number of employees in the company during each of the year be x

So, the number of managers in the year 2005 = $(80/100)x = 0.8x$

Among them, the number of male managers = $(5/8) \times 0.8x = 0.5x$

Similarly,

So, the number of managers in the year 2006 = $(50/100)x = 0.5x$

Among them, the number of male managers = $(2/5) \times 0.5x = 0.2x$

So, the percentage decrease in the number of male managers = $\left[\frac{(0.5x - 0.2x)}{0.5x}\right] \times 100 = 60\%$

133. Answer: b

Explanation:

Number of employees in the company in 2005 = 1000

So, total number of managers in 2005 = $(80/100) \times 1000 = 800$

Hence, the number of workers = $1000 - 800 = 200$

Now, the number of male and female workers is equal.

So, the number of female workers in 2005 = $200/2 = 100$

Also, the number of female managers = $(3/8) \times 800 = 300$

Hence, the required difference = $300 - 100 = 200$

$\therefore$ The difference between the number of female workers and the number of female managers in the year 2005 is 200

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134. Answer: b

Explanation:

Ratio of male managers to female managers in 2003 = 3 : 2

The number of male managers in 2003 = 480

Hence, the number of female managers in 2003 = $480 \times (2/3) = 320$

So, the total number of managers in 2003 = $480 + 320 = 800$

Percentage of the total employees as managers in 2003 = 40%

So, $(40/100) \times \text{total employees in 2003} = 800$

$\Rightarrow \text{Total employees in 2003} = 800 \times (100/40) = 2000$

Similarly, we have:

Ratio of male managers to female managers in 2005 = 5 : 3

The number of female managers in 2005 = 450

Hence, the number of male managers in 2005 = $450 \times (5/3) = 750$

So, the total number of managers in 2005 = $450 + 750 = 1200$

Percentage of the total employees as managers in 2005 = 80%

So, $(80/100) \times \text{total employees in 2005} = 1200$

$\Rightarrow \text{Total employees in 2005} = 1200 \times (100/80) = 1500$

Hence, the required ratio = $2000 : 1500 = 4 : 3$

135. Answer: c

Explanation:

Number of workers in 2008 = 1400

As the number of total workers has doubled in 2008 from 2007,

Number of workers in 2007 = $1400/2 = 700$

Also, the percentage of the total employees working as managers in 2007 = 65%

Hence, the percentage of the total employees working as workers in 2007 = $100 - 65 = 35\%$

So, 35% of the total employees in 2007 = 700

$\Rightarrow \text{Total employees in 2007} = 700 \times (100/35) = 2000$

So, the number of managers in the year 2007 = $2000 - 700 = 1300$

136. Answer: d

Explanation:

Let the total number of employees in the the year 2005 be x

So, the total number of managers in 2005 = $(80/100) \times x = 0.8x$

$\Rightarrow$ Total number of workers in 2005 = $x - 0.8x = 0.2x$

Hence, the number of male managers in 2005 = $(5/8) \times 0.8x = 0.5x$

And the total number of employees in the the year 2006 be y

Also, So, the total number of managers in 2006 = $(50/100) \times y = 0.5y$

$\Rightarrow$ Total number of workers in 2006 = $y - 0.5y = 0.5y$

Hence, the number of male managers in 2006 = $(2/5) \times 0.5y = 0.2y$

As the number of workers is the same, we get:

$$0.2x = 0.5y$$

$$\Rightarrow x = 2.5y \quad \text{----(i)}$$

Using equation(i), the required ratio will become:

$$(0.5 \times 2.5y)/0.2y = 25/4$$

$\therefore$ The reuquired ratio between the number of male managers in 2005 and 2006 is $25 : 4$

137. Answer: e

Explanation:

Concept used:

$$\text{Volume of cone} = \left(\frac{1}{3}\right) \times \pi r^2 h$$

$$\text{The volume of cylinder} = \pi R^2 H$$

$$\text{Volume of hemisphere} = \left(\frac{2}{3}\right) \times \pi r^3$$

Calculation:

From column B, row 3, let us find out the radius corresponding to the given circumference.

$$\text{Circumference} = 2\pi r = 44$$

$$\text{Or, } r = \frac{44 \times 7}{44} = 7 \text{ cm.}$$

From this, we can conclude that, in column B, row 1 and row 3 are equal.

Our table will look like this:

A	B
Figure 1: A cone is mounted over a hemisphere. The volume of the figure is 2156 cm ³	1) Radius = 7 cm
Figure 2: A cylinder is shown with a volume of 1078 cm ³	2) Radius = 14 cm
Figure 3: A hemisphere with its circular part facing upwards.	3) Circumference = 44 cm Or, Radius = 7 cm

Now, Volume of figure 1 = 2156 cm^3

Volume of figure 1 = volume of hemisphere + volume of cone

$$2156 = \left(\frac{1}{3}\right) \times \pi r^2 h + \left(\frac{2}{3}\right) \times \pi r^3$$

Let us take radius $r = 7 \text{ cm}$ and observe the value of h .

$$2156 = \left(\frac{1}{3}\right) \times \left(\frac{22}{7}\right) \times 7^2 \times h + \left(\frac{2}{3}\right) \times \left(\frac{22}{7}\right) \times 7^3$$

$$2156 = \left(\frac{154}{3}\right) \times h + \frac{2156}{3}$$

Or, $h = 28 \text{ cm}$

Now, let's go through the options and see what values are obtained for figure 2, where the radius of figure 1 is taken as 7 cm .

We have 2 possibilities, namely, $2 - 2$ and $2 - 3$.

As 1 and 3 of column B are the same, we need not do option (c) as this is the same as option (b) of the question.

Let us take radius $r = 14 \text{ cm}$ and observe the value of h of the cylinder.

The volume of cylinder = $\pi R^2 H$

$$1078 \text{ cm}^3 = \left(\frac{22}{7}\right) \times 14^2 \times H$$

$$H = 1078 \times 7 / 4312 = 1.75 \text{ cm}$$

Then, difference between height of cone and cylinder = $28 - 1.75 > 20$

So, this option satisfies the condition.

Now,

Let us take radius $r = 7 \text{ cm}$ and observe the value of h of the cylinder.

The volume of cylinder = $\pi R^2 H$

$$1078 \text{ cm}^3 = \left(\frac{22}{7}\right) \times 7^2 \times H$$

$$H = 1078 / (22 \times 7) = 7$$

Then, the difference between the height of cone and cylinder = $28 - 7 > 20$

So, this option satisfies the condition.

Looking at the options, it is clear that, all options satisfy the conditions

$\therefore$ The all the options satisfy the given condition.

138. Answer: b

Explanation:

Concept used:

$$\text{Volume of cone} = \left(\frac{1}{3}\right) \times \pi r^2 h$$

$$\text{The volume of cylinder} = \pi R^2 H$$

$$\text{Volume of hemisphere} = \left(\frac{2}{3}\right) \times \pi r^3$$

Calculation:

Our table will look like this:

A	B
Figure 1: A cone is mounted over a hemisphere. The volume of the figure is 2156 cm^3	1) Radius = 7 cm
Figure 2: A cylinder is shown with a volume of 1078 cm^3	2) Radius = 14 cm
Figure 3: A hemisphere with its circular part facing upwards.	3) Circumference = 44 cm Or, Radius = 7 cm

Ratio of the height of figure 1 to figure 2 = 5 : 1

$$\Rightarrow (r + h) : H = 5 : 1$$

$$\Rightarrow r + h = 5r \quad (r = H, \text{ given})$$

$$\Rightarrow r : h = 1 : 4$$

Now, Volume of figure 1 = 2156 cm^3

$$\Rightarrow 2156 = \left(\frac{1}{3}\right) \times \pi(x)^2(4x) + \left(\frac{2}{3}\right) \times \pi(x)^3$$

$$\Rightarrow 343 = x^3$$

$$\Rightarrow x = 7$$

$\Rightarrow$ Radius of figure 1 = height of cylinder = 7 cm, calculating for radius of cylinder, we get

$$\Rightarrow \text{Radius of cylinder} = \left(1078 \times \frac{7}{22} \times 7\right)^{1/2} = 7 \text{ cm, which is given in only option 2}$$

Now, Circumference = $2\pi r$

$$\Rightarrow \text{Circumference} = 2 \times \left(\frac{22}{7}\right) \times 7$$

$$\Rightarrow \text{Circumference} = 44 \text{ cm}$$

$\therefore$ The required solution obtained when 2 – 1, 1 – 3 is applied.

139. Answer: d

Explanation:

Given:

Village	Total population	% of literates	% of literate female	% of illiterate male
Q	35500	40	25	40
R	30200	30	60	50
T	45000	83	55	35

Calculation:

Number of female illitrates from Q and R = Number of illitrates from Q $\times$ 60% +
Number of illitrates from R $\times$ 70% $\times$ 50%

Number of illitrates from Q = Total population $\times$ 60% = $35500 \times 60\%$ = 21300

Number of illitrates from R = Total population $\times$ 70% = $30200 \times 70\%$ = 21140

Number of female illitrates from Q and R = $21300 \times 60\%$ + $21140 \times 50\%$ = 23350

Number of females who are not attending from village Q and R = 45% $\times$ number of
females from Q and R = $45\% \times 23350$ = 10508

Total number of people who attend the program from Q and R = Total illiterates from Q and R - Number of females who are not attending from village Q and R

Total number of people who attend the program from Q and R = $21300 + 21140 - 10508 = 31932$

Total number of people who attend the program = illiterates from T + $31932 = 45000 \times 17\% + 31932 = 39582$

Total number of males who attend the program = Q's illiterates $\times 40\%$ + R's illiterates $\times 50\%$ + T's illiterates $\times 35\%$

Total number of males who attend the program = $21300 \times 40\% + 21140 \times 50\% + 7650 \times 35\% = 21768$

Percentage of males in total attended = $21768/39582 \times 100 = 55\%$

$\therefore$ Percentage of males in total attended people is 55%.

140. Answer: d

Explanation:

Given:

Village	Total population	% of literates	% of literate female	% of illiterate male
S	25750	72	35	45

Calculation:

Total literates = total population $\times 72\% = 18,540$

Number of female literates = total literates $\times 35\% = 18540 \times 35\% = 6489$

Number of male literates = total literates – female literates = 18540 – 6489 = 12,051

Difference between male and female literates = 12051 – 6489 = 5562

Percentage of male literates more than female literates = $5562/6489 \times 100 = 85.7\%$

$\therefore$ Male literates are 85.7% more than female literates.

141. Answer: c

Explanation:

Given:

Percentage of literate females who decided to work = 65%

Amount received as wage by each female = Rs. 600

Village	Total population	% of literates	% of literate female	% of illiterate male
P	44500	20	45	30

Calculation:

Number of literate females = total number of literates $\times$ 45% = $44500 \times 20\% \times 45\%$
= 4005

Number of literate females working = 65% $\times$ number of literate females = $65\% \times 4005 = 2603$

Total wages obtained by all = $600 \times 2603 = \text{Rs. } 15,61,950$

$\therefore$ The total wages obtained by females is Rs. 15,61,950.

142. Answer: c

Explanation:

Given:

Village	Total population	% of literates	% of literate female	% of illiterate male
R	30200	30	60	50

Amount of rice and sugar given to villagers = 3 kg rice and 2 kg sugar

Calculation:

Number of literate females = $30200 \times 30\% \times 60\%$

Number of male literates = $30200 \times 30\% \times 40\%$

The total amount of rice got by the females = $3 \times 30200 \times 30\% \times 60\%$ ----(1)

The total amount of sugar got by males = $30200 \times 30\% \times 40\%$ ----(2)

The ratio of (1) : (2) = $30200 \times 30\% \times 60\% \times 3 : 30200 \times 30\% \times 40\% \times 2$

The ratio of (1) : (2) = 9 : 4

$\therefore$ The ratio of the total amount of rice received by literate females to the total amount of sugar received by literate males is 9 : 4.

143. Answer: c

Explanation:

Given:

Percentage of illiterates who became literates = 25%

Village	Total population	% of literates	% of literate female	% of illiterate male
Q	35500	40	25	40

Calculation:

Number of illiterates who became literates = $25\% \times 35500 \times 60\% = 5325$

Then, total number of literates = $35500 \times 40\% + 5325 = 19,525$

Number of illiterates = $75\% \times 35500 \times 60\% = 15,975$

Percentage of literates = $19,525/35500 \times 100 = 55\%$

Percentage of illiterates = $15,975/35500 \times 100 = 45\%$

Ratio of Percentage of literates to illiterates = $55 : 45 = 11 : 9$

$\therefore$ The required ratio is 11: 9.

144. Answer: a

Explanation:

Formula used:

$$SI = (P \times R \times T)/100$$

$$\text{Amount} = P \times (1 + R/100)^t$$

$$CI = P \times [(1 + R/100)^t - 1]$$

where, SI $\rightarrow$ Simple interest, CI $\rightarrow$ Comp[und interest

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P → Principal, R → Rate of interest, T → Time period

Calculations:

Statement I:

Let the principal amount be P.

$$\text{CI at 25\% for 2 years} = P \times \left[\left(1 + \frac{25}{100} \right)^2 - 1 \right] \quad \text{-----(1)}$$

$$\text{SI at 5\% rate for 1 year} = \frac{(P \times 5 \times 1)}{100} \quad \text{-----(2)}$$

$$\text{Now, (1) - (2) = Rs. 250}$$

$$\Rightarrow \frac{9P}{16} - \frac{P}{20} = \text{Rs. 250}$$

$$\Rightarrow \frac{41P}{80} = \text{Rs. 250}$$

$$\Rightarrow P = \frac{\text{Rs. 20000}}{41}$$

So, statement I is sufficient to answer the question.

Statement II:

Let the principal be P.

$$\Rightarrow (3P + 2) = P \times \left(1 + \frac{3.5}{100} \right)^t$$

Since we have 1 equation 2 variables

So it cannot be solved

So, statement II is not sufficient to answer the question.

Statement III:

$$\text{CI at 8\% annually} = P \times \left[\left(1 + \frac{8}{100} \right)^t - 1 \right]$$

$$\text{CI at 8\% semi-annually} = P \times \left[\left(1 + \frac{(8//2)}{100} \right)^t - 1 \right]$$

$$P \times \left[\left(1 + \frac{8}{100} \right)^t - 1 \right] - P \times \left[\left(1 + \frac{(8//2)}{100} \right)^t - 1 \right] = \text{Rs. 279}$$

Since we have 1 equation 2 variables

So it cannot be solved

So, statement III is not sufficient to answer the question.

$\therefore$ The data in statement I alone is sufficient to answer the question, while the data in statement II and statement III alone are not sufficient to answer the question.

145. Answer: c

Explanation:

Given:

Marked price of the article = Rs. y

Formula Used:

$$SP = CP \pm \text{Profit/Loss}$$

$$SP = MRP \times (1 - D\%/100)$$

$$SP = CP \times (1 \pm (P\%/L\%)/100)$$

where, CP $\rightarrow$ Cost price, SP $\rightarrow$ Selling price, MRP $\rightarrow$ Marked price

Calculations:

Marked price of the article = Rs. y

Statement I:

MRP more than CP = 80%

Discount = 2x%

$$\text{Now, } MRP = (180/100) \times CP$$

$$\Rightarrow CP = \text{Rs. } y \times (5/9) = \text{Rs. } 5y/9$$

So, Statement I is sufficient to answer the question.

Statement II:

Gain = 8%

Discount = 2x%

Profit = Rs. 5y

Now, Value of 8% = Rs. 5y

$\Rightarrow CP = 100\% = Rs. 5y \times (100/8)$

$\Rightarrow CP = Rs. 125y/2$

So, Statement II is sufficient to answer the question.

Statement III.

Loss = 12%

Discount = Rs. 217

No other information is given in the question

So, Statement III is not sufficient to answer the question.

$\therefore$ The data in statement I alone or in statement II alone is sufficient to answer the question, while the data in statement III alone is not sufficient to answer the question.

146. Answer: a

Explanation:

Given:

Total number of students = 550

Number of males = 40%

Calculations:

Total number of students = 550

Number of males = 40%

⇒ Number of males = $(40/100) \times 550 = 220$

Number of females = $(550 - 220) = 330$

Now, Males who participated in dancing = 10% of 220

⇒ Males who participated in dancing = $(10/100) \times 220 = 22$

Now, Females who participated in dancing = 33.33% of 330

⇒ Females who participated in dancing = $(1/3) \times 330 = 110$

Total number of students who participated in dancing = $(22 + 110)$

⇒ Total number of students who participated in dancing = 132

Students participated in anchoring = 16.67% of 132

⇒ Students participated in anchoring = $(1/6) \times 132 = 22$

∴ The number of students who participated in anchoring is 22.

147. Answer: a

Explanation:

Given:

Difference between father's and mother's age = 3 years

Average age of the couple at the time of Child's birth = 35 years

Initial age of father = 29 years

Calculation:

Mother's initial age = $29 - 3 = 26$ years

Now, Father's age at the time of marriage = $29 + 3 = 32$ years

Mother's age at the time of marriage = $26 + 3 = 29$ years

Now, Let the child is born after x years

So, $(32 + x + 29 + x)/2 = 35$

$\Rightarrow 61 + 2x = 70$

$\Rightarrow 2x = 9$

$\Rightarrow x = 9/2 = 4.5$ years

$\therefore$ The child is born after 4.5 years

148. Answer: c

Explanation:

Given:

Length of train Shatabadi express = 180 m

Length of train August express = 240 m

Time Shatabadi express takes to cross a tree = 12 sec

Time August express takes to cross a tree = 12 sec

Length of the Bridge = 270 m

Calculation:

Speed of Shatabadi express = $180/12 = 15$ m/sec

Speed of August express = $240/12 = 20$ m/sec

⇒ Time Shatabadi express takes to cross the bridge = $(270 + 180)/15 = 30$ sec

⇒ Time August express takes to cross the bridge = $(240 + 270)/20 = 25.5$ sec

Thus August express will cross the bridge first

The distance that Shatabadi need to cover

Distance covered by train Shatabadi in 25.5 sec = $25.5 \times 15 = 382.5$

Total distance = $270 + 180 = 450$

⇒ Required distance = $450 - 382.5 = 67.5$

∴ The distance Shatabadi express will cover after August express passed the bridge is 67.5 m.

149. Answer: d

Explanation:

Given:

Length of train Shatabadi express = 180 m

Time Shatabadi express takes to cross a tree = 12 sec

Length of the platform = 0.55 km

Formula used:

Speed = Distance/Time

Calculation:

Speed of Shatabadi express = $180/12 = 15$ m/sec

Increased speed of Shatabadi express = $15 \times (4/3) = 20$ m/sec

Length of the platform in meters = $0.55 \times 1000 = 550$ m

Time = $(550 + 180)/20 = 730/20 = 36.5$ sec

$\therefore$ The time taken by the Shatabadi train to cover a platform is 36.5 sec.

150. Answer: b

Explanation:

Given:

Length of train Shatabadi express = 180 m

Length of train August express = 240 m

Time Shatabadi express takes to cross a tree = 12 sec

Time August express takes to cross a tree = 12 sec

Formula used:

Speed = Distance/Time

Calculation:

Speed of Shatabadi express = $180/12 = 15$ m/sec = $15 \times (18/5) = 54$ km/h

Speed of August express = $240/12 = 20$ m/sec = $20 \times (18/5) = 72$ km/h

Total time Shatabadi express takes to reach the meeting point = 8 hours

Distance covered by Shatabadi express in 8 h = $54 \times 8 = 432$ km

Distance covered by August express in $(8 - 2)$ hr = $72 \times 6 = 432$ km

As the distance covered by both the trains are same = 432 km

Shatabadi express will take 8 h to reach point R after the meeting.

∴ The time the Shatabadi train takes to reach the point R is 8 hours.

151. **Answer: a**

Explanation:

Given:

Length of train Shatabadi express = 180 m

Length of train August express = 240 m

Time Shatabadi express takes to cross a tree = 12 sec

Time August express takes to cross a tree = 12 sec

Formula used:

Speed = Distance/Time

Calculation:

We know that

$$66.67\% = (2/3)$$

New time Shatabadi express takes to cross a tree = $12 \times [(2 + 3)/3] = 20 \text{ sec}$

New time August express takes to cross a tree = $12 \times [(100 + 150)/100] = 30 \text{ sec}$

⇒ New speed of Shatabadi express = $180/20 = 9 \text{ m/sec}$

⇒ New speed of August express = $240/30 = 8 \text{ m/sec}$

Required time = $(180 + 240)/(9 + 8) = 420/17 = 24.7 \text{ sec}$

∴ Time taken by the two trains to cross each other is 24.7 sec

152. Answer: b

Explanation:

Given:

Length of Shatabdi Express = 180 meters

Time taken by Shatabdi Express to cross a tree = 12 seconds

Length of August Express = 240 meters

Time taken by August Express to cross the same tree = 12 seconds

Formula Used:

Speed = Distance/Time

Calculation:

Normal speed of Shatabdi Express (S) = $180/12 = 15 \text{ m/s}$

Similarly, Normal speed of August Express (A) = $240/20 = 20 \text{ m/s}$

Hence we obtain:

$$4S - 3A = (4 \times 15) - (3 \times 20) = 0$$

$\therefore$ The required value of $(4S - 3A)$ is 0

153. Answer: a

Explanation:

Given:

The distance is travelled by him = 10 km

Reaching time = 50 minutes

$\Rightarrow (5/6)$ hours

The volume of a cylinder = 4620 m^3

The volume of a cone = $(1/7) \times$ the volume of a cylinder

And the height of a cone = 10 m

Reduce time = $(50 - 10)$

$\Rightarrow 40$ minutes

$\Rightarrow 40/60$ hours

$\Rightarrow 2/3$ hours

Formula used:

Speed = (Distance/Time)

The volume of cylinder = $\pi r^2 h$

The curved surface area of a cylinder = $2\pi rh$, where r is the radius of a cylinder and h is the height of a cylinder.

The volume of a cone = $(1/3)\pi R^2 H$, where R is the radius of a cone, H is the height of a cone and π is $22/7$

The slant height of a cone = $\sqrt{(\text{height}^2 + \text{radius}^2)}$

Calculation:

The speed when he went shopping = $[(10)/(5/6)]$

$\Rightarrow 12 \text{ km/hr}$

And the speed during returning = $[(10)/(2/3)]$

$\Rightarrow 15 \text{ km/hr}$

Increased speed = $15 - 12$

$\Rightarrow 3 \text{ km/hr}$

$\therefore$ His increased speed was 3 km/hr

154. Answer: a

Explanation:

Given:

The distance is travelled by him = 10 km

Reaching time = 50 minutes

$\Rightarrow (5/6) \text{ hours}$

The volume of a cylinder = 4620 m^3

The volume of a cone = $(1/7) \times$ the volume of a cylinder

And the height of a cone = 10 m

Reduce time = $(50 - 10)$

$\Rightarrow 40 \text{ minutes}$

$\Rightarrow 40/60 \text{ hours}$

$\Rightarrow 2/3 \text{ hours}$

Formula used:

Speed = (Distance/Time)

The volume of cylinder = $\pi r^2 h$

The curved surface area of a cylinder = $2\pi rh$, where r is the radius of a cylinder and h is the height of a cylinder.

The volume of a cone = $(\frac{1}{3})\pi R^2 H$, where R is the radius of a cone, H is the height of a cone and π is $\frac{22}{7}$

The slant height of a cone = $\sqrt{(\text{height}^2 + \text{radius}^2)}$

Calculation:

The volume of a cone = $(\frac{1}{3}) \times 4620$

$\Rightarrow 660 \text{ m}^3$

The volume of a cone = $(\frac{1}{3})\pi R^2 \times 10$

$\Rightarrow 660 = (\frac{10}{3}) \times (\frac{22}{7}) \times R^2$

$\Rightarrow R^2 = (660 \times 3 \times 7) / (10 \times 22)$

$\Rightarrow R^2 = 3 \times 3 \times 7$

$\Rightarrow R = \sqrt{(3 \times 3 \times 7)}$

$\Rightarrow R = 3\sqrt{7} \text{ m}$

The slant height of cone = $\sqrt{[(10)^2 + (3\sqrt{7})^2]}$

$\Rightarrow \sqrt{[100 + 63]}$

$\Rightarrow \sqrt{163} \text{ m}$

$\therefore$ The slant height of a cone is $\sqrt{163} \text{ m}$.

155. Answer: c

Explanation:

Given:

The distance is travelled by him = 10 km

Reaching time = 50 minutes

$\Rightarrow (5/6)$ hours

The volume of a cylinder = 4620 m³

And the height of a cylinder = 30 m

The volume of a cone = $(1/7)$ $\times$ the volume of a cylinder

And the height of a cone = 10 m

Reduce time = (50 - 10)

$\Rightarrow$ 40 minutes

$\Rightarrow 40/60$ hours

$\Rightarrow 2/3$ hours

Formula used:

Speed = (Distance/Time)

The volume of cylinder = $\pi r^2 h$

The curved surface area of a cylinder = $2\pi rh$, where r is the radius of a cylinder and h is the height of a cylinder.

The volume of a cone = $(1/3)\pi R^2 H$, where R is the radius of a cone, H is the height of a cone and π is $22/7$

The slant height of a cone = $\sqrt{(\text{height}^2 + \text{radius}^2)}$

Calculation:

The volume of cylinder = $(22/7) \times r^2 \times 30$

$\Rightarrow 4620 = (22/7) \times r^2 \times 30$

$\Rightarrow r^2 = (4620 \times 7)/(30 \times 22)$

$\Rightarrow r^2 = 49$

$$\Rightarrow r = \sqrt{49}$$

$$\Rightarrow r = 7 \text{ m}$$

The curved surface area of a cylinder = $2 \times \left(\frac{22}{7}\right) \times 7 \times 30$

$$\Rightarrow 1320 \text{ m}^2$$

$\therefore$ The curved surface area of a cylinder is 1320 m^2

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