

Prepp

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



BPS



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 18 July 2022 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General Intelligence & Reasoning	25	25	0.25	1
2	Numerical Aptitude	25	25	0.25	1
3	General English	25	25	0.25	1
4	General Awareness	25	25	0.25	1

- 1.) A total of 90 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.

General Intelligence & Reasoning

1. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

4, 34, 58, 76, 88, ?

- a. 96
- b. 94
- c. 92
- d. 98

-
2. In a certain code language, 'PEARL' is coded as '24153', 'EARTH' is coded as '41590' and 'PILE' is coded as '2634'. What is the code for the word 'HEAR' in that language? (+1, -0.25)

- a. 2651
- b. 0415
- c. 1520
- d. 9054

-
3. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)

TOR, ?, VQT, WRU, XSV

- a. UPS
- b. VPS

c. VPT

d. UNS

-
4. Which two signs need to be interchanged to make the following equation correct? (+1, -0.25)

$$35 + 7 \times 12 - 6 \div 2 = 6$$

a. and \times

b. and \div

c. + and \times

d. \times and \div

-
5. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (+1, -0.25)

(8, 4, 1)

(12, 4, 5)

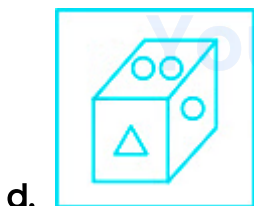
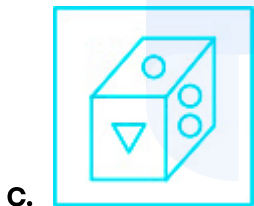
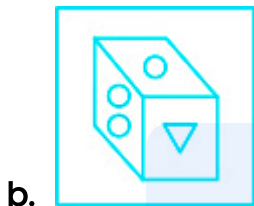
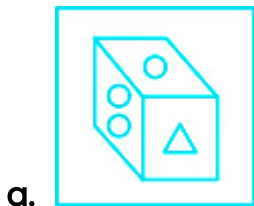
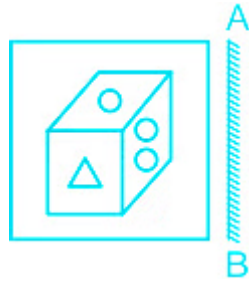
a. (44, 20, 20)

b. (20, 2, 12)

c. (17, 8, 6)

d. (33, 10, 21)

-
6. Select the correct mirror image of the given figure when the mirror is placed at the right side. (+1, -0.25)



7. By interchanging the given two signs \div and $-$, which of the following equations will be correct? (+1, -0.25)

I. $143 + 6 \times 18 \div 45 - 3 = 236$

II. $133 - 7 + 16 \times 11 \div 37 = 158$

a. Both I and II

- b. Only I
 - c. Only II
 - d. Neither I nor II
-

8. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

Some festivals are fireworks.

No cracker is a firework.

No bomb is a festival.

Conclusions:

I. No bomb is a cracker.

II. Some bombs are crackers.

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

9. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at (+1, -0.25)

variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statement I: All mobiles are electronics.

Statement II: All laptops are electronics.

Conclusion I: Some mobiles are laptops.

Conclusion II: All mobiles are laptops.

- a. Either conclusion I or II follows.
- b. Only conclusion II follows.
- c. Neither conclusion I nor II follows.
- d. Only conclusion I follows.

10. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. (+1, -0.25)

RNP : SOQ :: CSN : DTO :: EJM : ?

- a. FKO
- b. FKL
- c. FKN
- d. FLN

11. In a certain code language, 'HAPREB' is written as 'IEUQAW', and 'GBCDFA' is written as 'HFHCBV'. How will 'QRPLAC' be written in that language? (+1, -0.25)

- a. RVUKWX
- b. RVUJWX
- c. RVUJXW
- d. RVUKXW

12. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. (+1, -0.25)

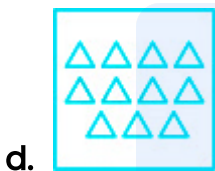
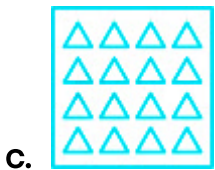
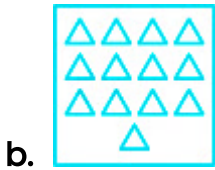
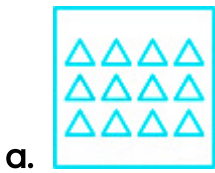
NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

125 : 25 :: 64 : 16 :: 216 : ?

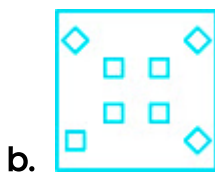
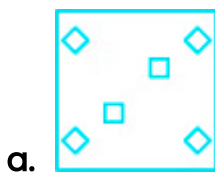
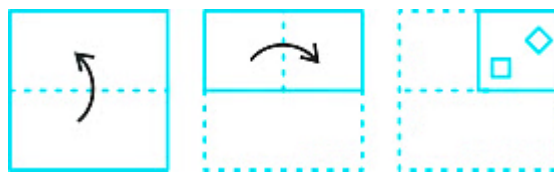
- a. 36
- b. 24
- c. 22
- d. 39

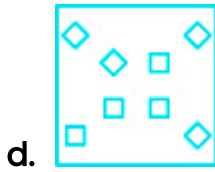
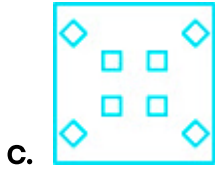
13. Select the figure from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)





14. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded? (+1, -0.25)





15. Six students, Riya, Mala, Ambika, Kajal, Heena and Sanya, are sitting around a circular table facing the centre (but not necessarily in the same order). Ambika is sitting third to the right of Heena. Riya is the immediate neighbour of Heena and Kajal. Mala is not the immediate neighbour of Heena. Kajal is to the immediate right of Ambika. Who is sitting second to the right of Riya? (+1, -0.25)

- a. Kajal
- b. Mala
- c. Sanya
- d. Heena

16. Among five friends P, Q, R, S and T, T is taller than only three other friends. R is the tallest among all friends. Q is taller than only one person. Only two persons are taller than P. Who is the shortest among all the friends? (+1, -0.25)

- a. T
- b. P
- c. Q

d. 5

17. Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it. (+1, -0.25)

(8, 4, 48), (3, 6, 36), (8, 6, ?)

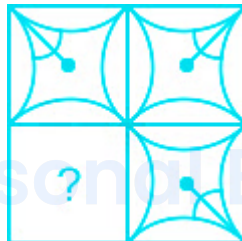
a. 52

b. 28

c. 14

d. 56

18. Select the option that can replace the question mark (?) in the given figure and complete the pattern. (+1, -0.25)





d.

19. In a certain code language, 'ELITE' is coded as '3', and 'BLUE' is coded as '2'. (+1, -0.25)
How will 'ABSENCE' be coded in that language?

a. 4

b. 2

c. 3

d. 1

20. Select the option in which the given figure is embedded (rotation is NOT allowed). (+1, -0.25)



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a.



b.



c.

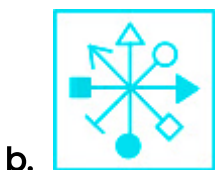


d.

21. In a certain code language, if 'sky' is known as 'earth', 'earth' is known as 'water', 'water' is known as 'air', 'air' is known as 'light', and 'light' is known as 'sound', then what is it that humans breathe in? (+1, -0.25)

- a. Air
- b. Earth
- c. Light
- d. Water

22. Select the figure from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)



a.

b.



23. Six books Hindi, Biology, Mathematics, Economics, Physics, Chemistry are placed in two racks facing each other with three books in each rack. Hindi and Chemistry are in the same rack but are not neighbours. Biology is placed exactly opposite to Economics. Biology is just left of Hindi facing South direction. Physics is exactly opposite to Chemistry. Which of the following is placed exactly opposite to Hindi? (+1, -0.25)
- a. Chemistry
 - b. Economics
 - c. Biology
 - d. Mathematics

24. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. (+1, -0.25)

TNG : RLD :: LAC : ?

- a. JYA
- b. JXZ
- c. JYZ

d. JXA

25. Select the option that is related to the third letter-cluster in the same way (+1, -0.25) as the second letter-cluster is related to the first letter-cluster.

THROUGH : UJUSZMO :: COSTUME : ?

a. DQYXZSL

b. DQWXZSL

c. DQVXZSL

d. DQVXZSK

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Numerical Aptitude

26. Aadish can complete a work in 14 days. If he worked for 8 days, then what fraction of the work would be left? (+1, -0.25)

a. $\frac{2}{7}$

b. $\frac{3}{7}$

c. $\frac{4}{7}$

d. $\frac{1}{7}$

27. The following table shows the income (in Rs.) of five different persons (A, B, C, D, E) over given 4 years. (+1, -0.25)

Years	2015	2016	2017	2018
A	12000	12500	13000	13500
B	10000	11000	12000	13000
C	5000	6000	7000	8000
D	20000	25000	30000	35000
E	15000	16000	17000	18000

Find the average income of the five persons in year 2015.

a. Rs. 12,600

b. Rs. 12,400

c. Rs. 12,700

d. Rs. 12,500

28. The diameter of a circle is 42 cm. What is the difference between the lengths of the circumference and the radius of the circle? [Use $\pi = \frac{22}{7}$] (+1, -0.25)

a. 98 cm

b. 94 cm

c. 111 cm

d. 105 cm

29. Find the average of the first fifteen multiples of 11. (+1, -0.25)

a. 55

b. 35.5

c. 88

d. 77

30. A and B together can do a piece of work in 24 days. A alone can do this work in 40 days. In how many days can B alone do this work? (+1, -0.25)

a. 40 days

b. 56 days

c. 60 days

d. 16 days

31. The salary of Amit is 75% of the salary of Aman. The salary of Amit increases by 40% and the salary of Aman increases by 10%. By what approximate percentage is the new salary of Aman more than the new salary of Amit? (+1, -0.25)
- a. 6.2%
 - b. 9.6%
 - c. 5.5%
 - d. 4.8%
-

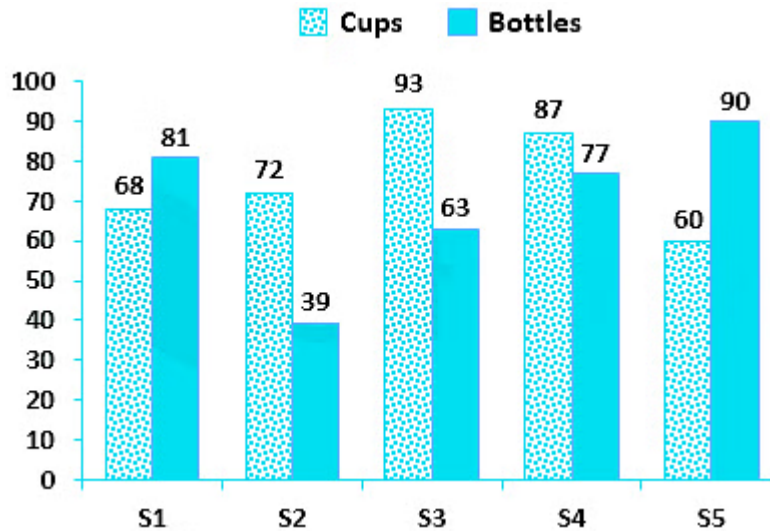
32. What is the value of $0.0045 \div 4.5 \times 100 - 45 \div 5$? (+1, -0.25)
- a. -8.9
 - b. -9
 - c. -8.1
 - d. -9.9
-

33. Two numbers are in the ratio of 3 : 5. If their HCF is 8, then find the numbers. (+1, -0.25)
- a. 36 and 60
 - b. 12 and 20
 - c. 48 and 80
 - d. 24 and 40
-

34. A invested an amount of Rs. 12,000 in a fixed deposit scheme for 2 years at an interest rate of 5% per annum, compounded annually. How much amount will A get on maturity of the fixed deposit? **(+1, -0.25)**
- a. Rs. 11,280
 - b. Rs. 14,560
 - c. Rs. 13,230
 - d. Rs. 12,450
-

35. Find the speed of a boat in still water if the boat goes 12 km/h along the stream and 4 km/h against the stream. **(+1, -0.25)**
- a. 10 km/h
 - b. 8 km/h
 - c. 7 km/h
 - d. 9 km/h
-

36. Study the given bar-graph and answer the question that follows. **(+1, -0.25)**
- The bar-graph shows the number of bottles and the number of cups sold by five different shops during a given week.



The total number of bottles sold during the given week by the five shops taken together is approximate what percentage of the total number of cups sold during the given week by the five shops taken together?

- a. 96.43%
- b. 92.11%
- c. 87.22%
- d. 89.07%

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37. When a watch is sold at $\frac{7}{11}$ of the marked price, there is a loss of 20%. (+1, -0.25)
What is the ratio of the market price to the cost price of this watch?

- a. 44 : 35
- b. 31 : 25
- c. 41 : 25
- d. 38 : 35

38. If $A = \frac{2}{3} + \frac{4}{7}$ of $\frac{14}{12}$ and $B = \frac{5}{12}$ of $\frac{7}{15} \times \frac{36}{21}$, then what is the value of $A + B$? (+1, -0.25)

- a. $\frac{5}{3}$
- b. 2
- c. $\frac{4}{3}$
- d. $\frac{2}{3}$

39. Kapila Rs. Bought 100 frocks at the rate of 320 per frock. Transport Expenses Rs. 1,000. He charged Rs. 1.50 and labor charges of Rs. 500. What should be the selling price per frock if she wants to make a profit of 10%? (+1, -0.25)

- a. Rs. 385.45
- b. Rs. 370.15
- c. Rs. 390.80
- d. Rs. 336.50

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40. A train travels for 2 hours at a speed of 6 m/sec. What is the distance covered by the train in the mentioned duration of time? (+1, -0.25)

- a. 40.8 km
- b. 36.4 km
- c. 46.6 km
- d. 43.2 km

41. If $\frac{1}{2} : x :: x : \frac{1}{8}$, find the positive value of x. (+1, -0.25)

a. $\frac{1}{25}$

b. $\frac{1}{12}$

c. $\frac{1}{4}$

d. $\frac{1}{11}$

42. the average of 10 consecutive integers is $\frac{11}{2}$. What is the average of the "smallest four" of these integers? (+1, -0.25)

a. 2.5

b. 3.5

c. 3

d. 2

43. Ritika bought each set of 10 shirts for ₹8,000 and sold them at a rate of ₹9,000 for every 12 shirts. Find her profit or loss percentage. (+1, -0.25)

a. 7% profit

b. 7.25% profit

c. 8% loss

d. 6.25% loss

44. In a class of 60 students, the ratio of girls to boys is 2 : 3. If 20 more girls join the class, then what is the new number of girls in the class? (+1, -0.25)

- a. 45
 - b. 44
 - c. 50
 - d. 56
-

45. The average weight of six persons is 30 kg. If a new person joins this group, then the average weight becomes 28 kg. What is the weight of the new person? (+1, -0.25)

- a. 22 kg
 - b. 14 kg
 - c. 15 kg
 - d. 16 kg
-

46. What is the simple interest on a principal of Rs. 24,000 for 4 years at the rate of 5% per annum? (+1, -0.25)

- a. Rs. 4,800
 - b. Rs. 3,600
 - c. Rs. 5,600
 - d. Rs. 5,000
-

47. The surface areas of the two spheres are in the ratio of 64 : 81. Find the ratio of their volumes, in the order given (+1, -0.25)

- a. 512 : 729
 - b. 64 : 729
 - c. 8 : 81
 - d. 4 : 9
-

48. The area of a sphere is 1386 cm^2 . What is the radius of the sphere? (+1, -0.25)

[Use $\pi = \frac{22}{7}$]

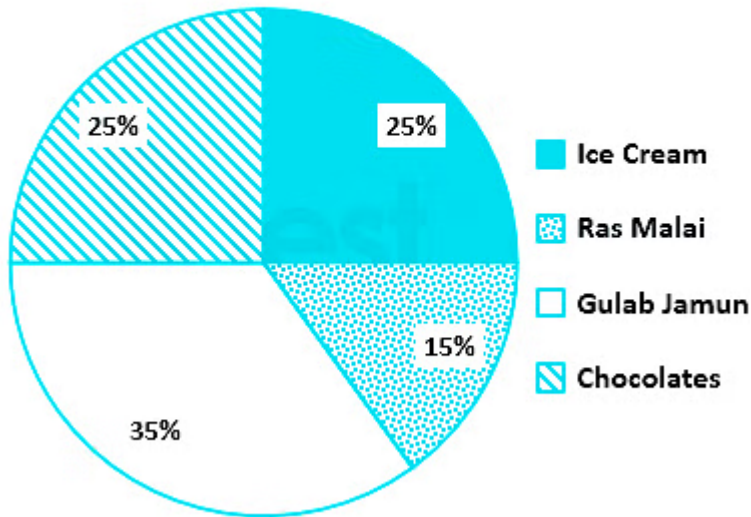
- a. 10.5 cm
 - b. 7 cm
 - c. 14 cm
 - d. 18 cm
-

49. A tree height of 50 m was cut so that the height of the tree gets reduced by 10%. Find the present height of the tree. (+1, -0.25)

- a. 45 m
 - b. 35 m
 - c. 25 m
 - d. 15 m
-

50. The following pie chart shows results from a survey of 160 kids about their favourite desserts. (+1, -0.25)

Favourite dessert survey
for 160 kids



What is the number of kids who like ice cream?

- a. 30
- b. 20
- c. 50
- d. 40

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General English

51. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Below the belt

- a. Without any effort
- b. Very quickly
- c. Cruel and unfair
- d. Suspiciously

52. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

Her forty-fourth birthday had just passed, unnoticed by all but herself.

- a. had just passed, unnoticed by but all herself
- b. has just passed, unnoticed by all herself
- c. has just passed, unnoticed by but all herself
- d. No improvement required

53. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

He sat down in a darkly corner and covered his face, and would not say a single word to anyone.

- a. No error
 - b. and covered his face, and would
 - c. He sat down in a darkly corner
 - d. not say a single word to anyone
-

54. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. (+1, -0.25)

The goons fled after kill a boy in the street.

- a. No error
 - b. boy in the street
 - c. after kill a
 - d. The goons fled
-

55. Select the most appropriate option to fill in the blank. (+1, -0.25)

She smashed a _____ of glass with the metal vase.

- a. pion
 - b. pawn
 - c. pane
 - d. pain
-

56. Select the most appropriate option to fill in the blank. (+1, -0.25)

I have visited _____ coaching institutes in your region.

- a. many
- b. mostly
- c. much
- d. any

57. Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Vanish

- a. Disappear
- b. Depart
- c. Conquer
- d. Emerge

58. Select the most appropriate synonym of the given word. (+1, -0.25)

Acute

- a. Obtuse
- b. Faithful
- c. Chronic
- d. Dire

59. Select the most appropriate meaning of the given idiom. (+1, -0.25)

Keep body and soul together

- a. Live happily
 - b. Live as long as possible
 - c. Be mentally and physically fit
 - d. Stay alive during hard times
-

60. Select the most appropriate option to fill in the blank. (+1, -0.25)

That fellow pushed me so hard that my vision got _____ for a second.

- a. simplified
 - b. illuminated
 - c. exposed
 - d. blurred
-

61. Select the most appropriate option to fill in the blank. (+1, -0.25)

I organised my dressing table by putting all the rubber bands _____
the drawer

- a. for
- b. in
- c. on

d. at

62. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

Next month, she was going to the institute to study for a master's degree.

- a. went to
 - b. has gone to
 - c. is going to
 - d. No improvement required
-

63. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'. (+1, -0.25)

He blew out the candle and went to sleep.

- a. went to sleep
 - b. go on sleep
 - c. No improvement required
 - d. gone to sleep
-

64. Select the most appropriate synonym of the underlined word in the given sentence. (+1, -0.25)

Simon had always been an ardent follower.

- a. averse
 - b. objective
 - c. casual
 - d. passionate
-

65. Select the most appropriate option to fill in the blank. (+1, -0.25)

Most mainliners do not view modern culture as inherently _____ to religious belief.

- a. inimical
 - b. inchoate
 - c. inconclusive
 - d. inadvertent
-

66. Select the option that corrects the misspelt words in the given sentence. (+1, -0.25)

A number of measres have been sugested by her.

- a. A number of measrues have been sugessted by her.
 - b. A number of measures have been suggested by her.
 - c. A number of measures have been suggested by her
 - d. A number of mesures have been suggested by her.
-

67. Select the most appropriate ANTONYM of the given word. (+1, -0.25)

Outstanding

- a. Astounding
 - b. Ordinary
 - c. Remarkable
 - d. Honest
-

68. Select the INCORRECTLY spelt word.

(+1, -0.25)

- a. Chauffeur
 - b. spocielist
 - c. Anchor
 - d. Compere
-

69. Select the most appropriate option to fill in the blank.

(+1, -0.25)

_____ I learned that there was a gift for each child, I was delighted.

- a. When
 - b. Though
 - c. While
 - d. Which
-

70. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the

(+1, -0.25)

given options. If you don't find any error, mark 'No error' as your answer.

Both of my parents are dependent on my salary of their living.

- a. are dependent on my
- b. Both of my parents
- c. salary of their living
- d. No error

71. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Many forests are cleared to (1) _____ way for palm oil plantations. Palm oil is the most (2) _____ produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

Select the most appropriate option to fill in blank number 1.

- a. made
- b. take
- c. make
- d. give

72. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in (+1, -0.25)

each blank.

Many forests are cleared to (1) _____ way for palm oil plantations. Palm oil is the most (2) _____ produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

Select the most appropriate option to fill in blank number 2.

- a. commonly
- b. casually
- c. lovingly
- d. usually

73. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Many forests are cleared to (1) _____ way for palm oil plantations. Palm oil is the most (2) _____ produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

Select the most appropriate option to fill in blank number 3.

- a. both
- b. each
- c. one

d. between

74. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Many forests are cleared to (1) _____ way for palm oil plantations. Palm oil is the most (2) _____ produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

Select the most appropriate option to fill in blank number 4.

- a. Our
- b. Its
- c. It's
- d. Their

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75. Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. (+1, -0.25)

Many forests are cleared to (1) _____ way for palm oil plantations. Palm oil is the most (2) _____ produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

Select the most appropriate option to fill in blank number 5.

- a. baffled
- b. delighted
- c. curated
- d. prompted

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General Awareness

76. The lowest known point on earth is called _____, which is present in the Pacific Ocean. (+1, -0.25)
- a. Factorial Deep
 - b. Challenger Deep
 - c. Great Blue Hole
 - d. Great Barrier Reef
-
77. Renowned Indian classical dancer Mrinalini Sarabhai was awarded with the _____ in 1965. (+1, -0.25)
- a. Padma Bhushan
 - b. Padma Vibhushan
 - c. Kalidas Samman
 - d. Padma Shri
-
78. Which of the following sports was NOT played at the 2020 Summer Olympic Games (Held in 2021)? (+1, -0.25)
- a. Bridge
 - b. Tennis
 - c. Basketball
 - d. Judo

79. The Satnami Movement in Central India had a motive to: (+1, -0.25)

- a. improve social status of leatherworkers
 - b. ban child marriage
 - c. open school for girls
 - d. improve widow status
-

80. Under which Act was the Supreme court established in India? (+1, -0.25)

- a. Charter Act of 1793
 - b. Regulating Act of 1773
 - c. Charter Act of 1853
 - d. Pitt's India Act 1784
-

81. Who is the author of the book 'Fearless Governance'? (+1, -0.25)

- a. Kiran Bedi
 - b. Jaswant Singh
 - c. Arun Shourie
 - d. MJ Akbar
-

82. Which of the following is an example of a public sector bank in India? (+1, -0.25)

- a. Federal Bank

- b. Axis Bank
 - c. HDFC Bank
 - d. Punjab National Bank
-

83. Which of the following was an integral part of the Indo-Islamic form of architecture? (+1, -0.25)

- a. Square roofs
 - b. Domes
 - c. Shutter windows
 - d. Tall and steep slopes
-

84. Which scheme of Rajasthan launched in 2022 provides the rural girls of the state with scholarship schemes? (+1, -0.25)

- a. STARS Project
 - b. Vision 2035
 - c. SAMARTH
 - d. Udaan
-

85. Who among the following was the first ruler of the Gupta dynasty to adopt the grand title of Maharaj-adhiraja? (+1, -0.25)

- a. Chandragupta I
- b. Vishnugupta

- c. Skandagupta
 - d. Samudragupta
-

86. As of April 2022, what is the capital of India's neighbouring country Myanmar? (+1, -0.25)

- a. Dhaka
 - b. Naypyidaw
 - c. Thimphu
 - d. Beijing
-

87. Laho is a folk dance of ----- (+1, -0.25)

- a. Meghalaya
 - b. Manipur
 - c. Kerala
 - d. Maharashtra
-

88. Which Article provides freedom to manage its own affairs in matters of religion? (+1, -0.25)

- a. Article 26
- b. Article 210
- c. Article 370

d. Article 5

89. Who among the following was the first Indian to win an individual gold medal at the Olympic Games? (+1, -0.25)

- a. Saina Nehwal
 - b. Anju Bobby George
 - c. Abhinav Bindra
 - d. Mahesh Bhupathi
-

90. Which of the following is the largest gland in the human body? (+1, -0.25)

- a. Pancreas
 - b. Liver
 - c. Pineal
 - d. Hypothalamus
-

91. Who has the power to abolish or create legislative council in the state? (+1, -0.25)

- a. Parliament
 - b. High court of the concerned state
 - c. President
 - d. Chief minister of the concerned state
-

92. Which of the following festivals is devoted to worshipping the Sun and celebrated mainly by the people of Bihar? (+1, -0.25)

- a. Bohag Bihu
- b. Ugadi
- c. Chhath Puja
- d. Lohri

93. Swarnajayanti Gram Swarozgar Yojana (SGSY) was launched in _____. (+1, -0.25)

- a. 1994
- b. 1999
- c. 1992
- d. 1995

94. Cobalt therapy is the medical use of _____ rays from the radioisotope cobalt60 to treat conditions such as cancer. (+1, -0.25)

- a. alpha
- b. beta
- c. gamma
- d. Ultraviolet

95. Amjad Ali Khan is associated with which instrument? (+1, -0.25)

- a. Veena
 - b. Nadaswaram
 - c. Sarangi
 - d. Sarod
-

96. In coastal areas, during the night, wind blows from land to sea because: (+1, -0.25)

- a. low pressure is created on land
 - b. land cools slower than water
 - c. water cools slower than land
 - d. high pressure is created at sea
-

97. 'Kathakali' is a classical dance form of which Indian state? (+1, -0.25)

- a. Manipur
 - b. Kerala
 - c. Karnataka
 - d. Assam
-

98. Which state is the leading producer of sugarcane in India, as of April 2022? (+1, -0.25)

- a. Tamil Nadu
- b. Telangana

- c. Madhya Pradesh
 - d. Uttar Pradesh
-

99. Which organelle is found both in eukaryotic and prokaryotic cells? (+1, -0.25)

- a. Ribosome
 - b. Golgi bodies
 - c. Mitochondria
 - d. Lysosome
-

100. Who defeated Maharana Pratap in the Battle of Haldighati in 1576? (+1, -0.25)

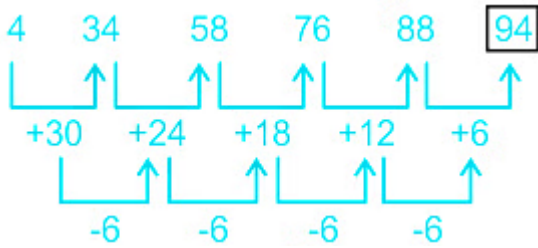
- a. Jahangir
- b. Harihara I
- c. Akbar
- d. Nizam Shah

Answers

1. Answer: b

Explanation:

The logic followed here is:



Here, '94' will complete the series.

Hence, the correct answer is "94".

2. Answer: b

Explanation:

The logic followed here is:

'PEARL' is coded as '24153',

P	E	A	R	L
2	4	1	5	3

'EARTH' is coded as '41590'

E	A	R	T	H
4	1	5	9	0

'PILE' is coded as '2634',

P	I	L	E
2	6	3	4

Similarly, for HEAR:

H	E	A	R
0	4	1	5

So, 'HEAR' will be coded as '0415'.

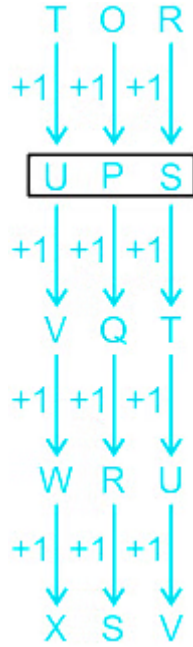
Hence, the correct answer is "Option 2".

3. Answer: a

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:



Here, 'UPS' will replace the question mark.

Hence, the correct answer is "UPS".

4. Answer: a

Explanation:

Given equation: $35 + 7 \times 12 - 6 \div 2 = 6$.

BODMAS Table:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Let's check each option one by one.

Option 1) - and ×

$$\text{Given: } 35 + 7 \times 12 - 6 \div 2 = 6$$

After interchanging the numbers we get;

$$\Rightarrow 35 + 7 - 12 \times \underline{6 \div 2} = 6$$

$$\Rightarrow 35 + 7 - \underline{12 \times 3} = 6$$

$$\Rightarrow \underline{35 + 7} - 36 = 6$$

$$\Rightarrow \underline{42} - 36 = 6$$

$$\Rightarrow 6 = 6$$

$$\Rightarrow \text{LHS} = \text{RHS}$$

Option 2) - and ÷

$$\text{Given: } 35 + 7 \times 12 - 6 \div 2 = 6$$

After interchanging the numbers we get;

$$\Rightarrow 35 + 7 \times \underline{12 \div 6} - 2 = 6$$

$$\Rightarrow 35 + \underline{7 \times 2} - 2 = 6$$

$$\Rightarrow \underline{35 + 14} - 2 = 6$$

$$\Rightarrow \underline{49} - 2 = 6$$

$$\Rightarrow 47 \neq 6$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 3) + and ×

$$\text{Given: } 35 + 7 \times 12 - 6 \div 2 = 6$$

After interchanging the numbers we get;

$$\Rightarrow 35 \times 7 + 12 - \underline{6 \div 2} = 6$$

$$\Rightarrow \underline{35} \times 7 + 12 - 3 = 6$$

$$\Rightarrow \underline{245} + 12 - 3 = 6$$

$$\Rightarrow 257 - 3 = 6$$

$$\Rightarrow 254 \neq 6$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Option 4) \times and \div

$$\text{Given: } 35 + 7 \times 12 - 6 \div 2 = 6$$

After interchanging the numbers we get;

$$\Rightarrow 35 + \underline{7 \div 12} - 6 \times 2 = 6$$

$$\Rightarrow 35 + 0.59 - \underline{6 \times 2} = 6$$

$$\Rightarrow \underline{35 + 0.59} - 12 = 6$$

$$\Rightarrow \underline{35.59} - 12 = 6$$

$$\Rightarrow 23.59 \neq 6$$

$$\Rightarrow \text{LHS} \neq \text{RHS}$$

Hence, the correct answer is "Option 1".

5. Answer: c

Explanation:

The logic followed here is:

$$(\text{1st number} - \text{2nd number}) - 3 = \text{3rd number}.$$

Here, for (8, 4, 1)

$$(8 - 4) - 3$$

$$\Rightarrow 4 - 3 = 1.$$

$$(12, 4, 5)$$

$$(12 - 4) - 3$$

$$\Rightarrow 8 - 3 = 5.$$

Similarly, for (17, 8, 6)

$$(17 - 8) - 3$$

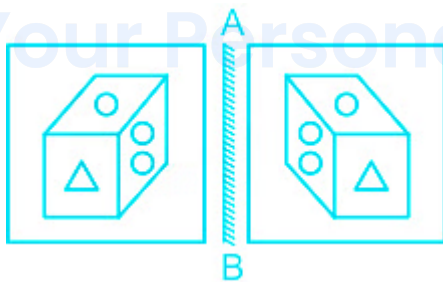
$$\Rightarrow 9 - 3 = 6.$$

Hence, the correct answer is "Option 3".

6. Answer: a

Explanation:

The correct mirror image of the given figure is:



Hence, the correct answer is "Option 1".

7. Answer: a

Explanation:

BODMAS Table:

B	Brackets in order {}, {}, []	ब्रैकेट {}, {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Given equation I: $143 + 6 \times 18 \div 45 - 3 = 236$

Now, if '÷' and '-' are interchanged, then:

$$\Rightarrow 143 + 6 \times 18 - \underline{45 \div 3} = 236$$

$$\Rightarrow 143 + \underline{6 \times 18} - 15 = 236$$

$$\Rightarrow \underline{143 + 108} - 15 = 236$$

$$\Rightarrow \underline{251} - 15 = 236$$

$$= 236 = 236.$$

LHS = RHS.

Given equation II: $133 - 7 + 16 \times 11 \div 37 = 158$

Now, if '÷' and '-' are interchanged, then:

$$\Rightarrow \underline{133 \div 7} + 16 \times 11 - 37 = 158$$

$$\Rightarrow 19 + \underline{16 \times 11} - 37 = 158$$

$$\Rightarrow \underline{19 + 176} - 37 = 158$$

$$\Rightarrow \underline{195} - 37 = 158$$

$$= 158 = 158$$

LHS = RHS.

Here, Both I and II are correct equation after interchanging the given symbol.

Hence, the correct answer is "Option 1".

8. Answer: c

Explanation:

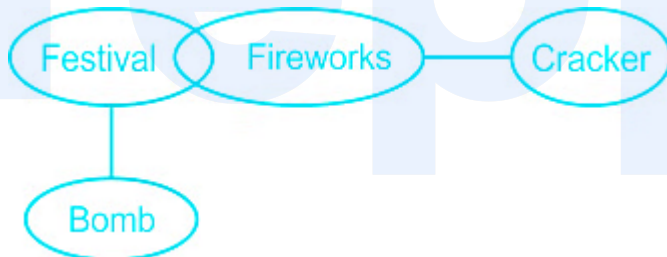
Statement:

Some festivals are fireworks.

No cracker is a firework.

No bomb is a festival.

The least possible diagram for the given statements is as follows:



Conclusions:

(i) No bomb is a cracker - False (Because No direct relation given between Bomb and Cracker, so it can be possible not definite).

(ii) Some bombs are crackers - False (Because No direct relation given between Bomb and Cracker, so it can be possible not definite).

Here, Both the conclusions are wrong, but it forms the complementary pair for Either-or.

Here, Either conclusion I or II follows.

Hence, the correct answer is "Option 3".

★ Additional Information

Complementary pairs for Either or case are:-

- 1) Some + No
- 2) All + Some not

Rules for Either or Case:-

- 1. Subject and Predicate of the element should be same.
- 2. Two of the conclusions should be can't be determined.
- 3. Both should form a complementary pair.

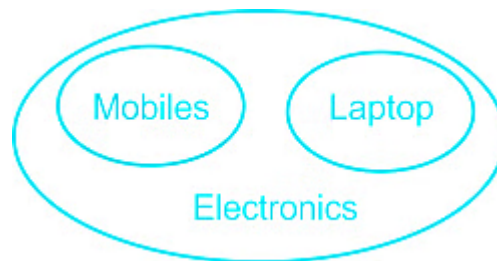
9. **Answer: c**

Explanation:

Statement:

- I. All mobiles are electronics.
- II. All laptops are electronics.

The least possible diagram for the given statements is as follows:



Conclusions:

- (i) Some mobiles are laptops. - False (Because No definite relation given between mobiles and laptop, so it can be possible only).

(ii) All mobiles are laptops – False (Because No definite relation given between mobiles and laptop , so it can be possible only).

So, Neither conclusion I or II follows.

Hence, the correct answer is "Option 3" .

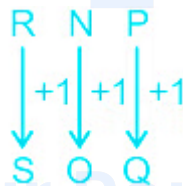
10. Answer: c

Explanation:

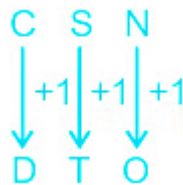
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

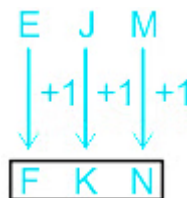
For, RNP : SOQ



For, CSN : DTO



Similarly, for EJM :



Hence, the correct answer is "Option 3".

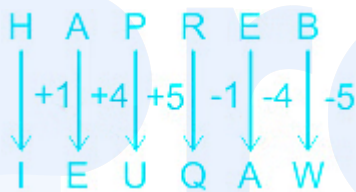
11. Answer: a

Explanation:

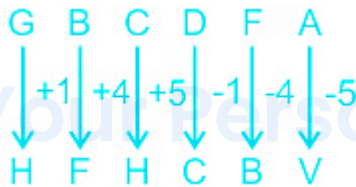
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, 'HAPREB' is written as 'IEUQAW'



For, 'GBCDFA' is written as 'HFHCBV'



Similarly, for QRPLAC :



So, 'QRPLAC' will be coded as 'RVUKWX'.

Hence, the correct answer is "Option 1".

12. Answer: a

Explanation:

The logic followed here is:

For, $125 : 25$

$$5^3 \rightarrow 125.$$

$$5^2 \rightarrow 25.$$

For, $64 : 16$

$$4^3 \rightarrow 64.$$

$$4^2 \rightarrow 16.$$

Similarly, for $216 : ?$

$$6^3 \rightarrow 216.$$

$$6^2 \rightarrow 36.$$

Hence, the correct answer is "36".

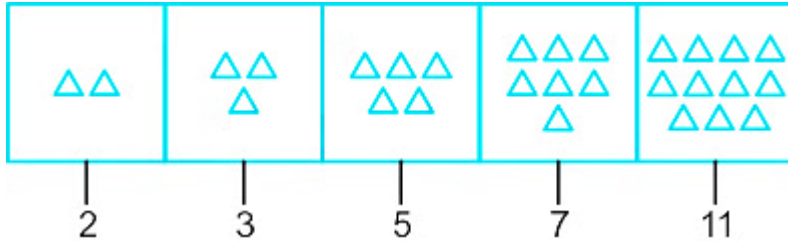
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13. Answer: d

Explanation:

The logic followed here is:

The triangles are increasing in the Prime number order.

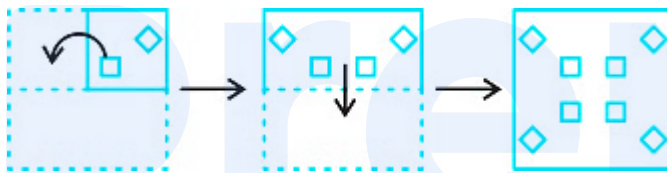


Hence, the correct answer is "Option 4".

14. Answer: c

Explanation:

The paper when unfolded will appear as shown below:



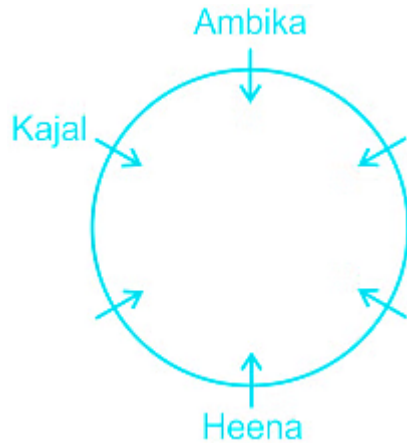
Hence, "Option 1" is the correct answer.

15. Answer: c

Explanation:

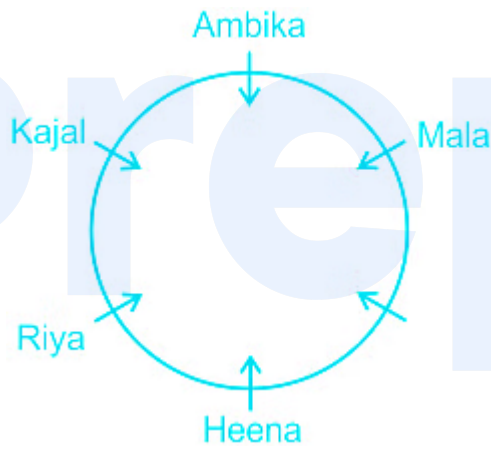
Given: Six students, Riya, Mala, Ambika, Kajal, Heena and Sanya.

- 1) Ambika is sitting third to the right of Heena.
- 2) Kajal is to the immediate right of Ambika.

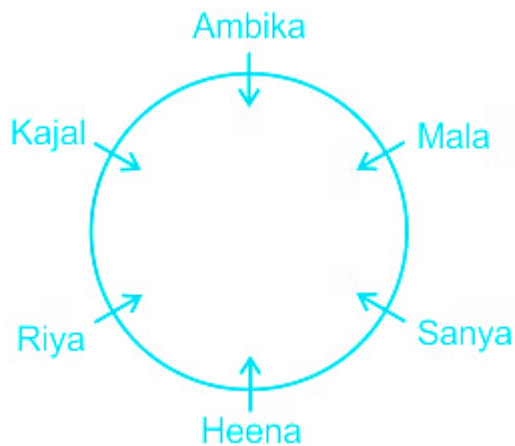


3) Riya is the immediate neighbour of Heena and Kajal.

4) Mala is not the immediate neighbour of Heena.



And, Sanya will sit on the remaining place.



Here, 'Sanya' is sitting second to the right of Riya.

Hence, the correct answer is "Sanya".

16. Answer: d

Explanation:

Given: Five friends P, Q, R, S and T.

1) R is the tallest among all friends.

$R > _ > _ > _ > _$

2) Q is taller than only one person.

$R > _ > _ > Q > _$

3) Only two persons are taller than P.

$R > _ > P > Q > _$

4) T is taller than only three other friends.

$R > T > P > Q > _$

So, S will be remaining person, and he will be the shortest one.

$R > T > P > Q > S$

So, 'S' is the shortest among all the friends.

Hence, the correct answer is "S".

17. Answer: d

Explanation:

The logic followed here is:

(1st number + 2nd number) \times 4 = 3rd number .

Here, for (8, 4, 48)

$$\Rightarrow (8 + 4) \times 4$$

$$\Rightarrow 12 \times 4 = 48.$$

For, (3, 6, 36)

$$\Rightarrow (3 + 6) \times 4$$

$$\Rightarrow 9 \times 4 = 36..$$

Similarly, for (8, 6, ?)

$$\Rightarrow (8 + 6) \times 4$$

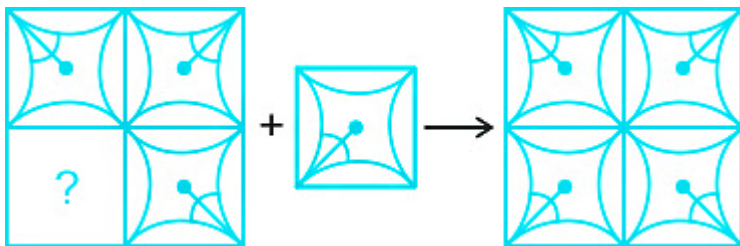
$$\Rightarrow 14 \times 4 = 56.$$

Hence, the correct answer is "56".

18. Answer: d

Explanation:

The image that completes the pattern is:



Hence, the correct answer is "Option 4".

19. Answer: c

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

Number of Vowels in the word is the code for that word.

For, 'ELITE' is coded as '3'

Number of Vowels in word 'ELITE' = 3 (EIE)

For, 'BLUE' is coded as '2'

Number of Vowels in word 'BLUE' = 2 (UE)

Similarly, for ABSENCE :

Number of Vowels in word 'ABSENCE' = 3 (AEE)









Hence, the correct answer is "Option 3" .

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20. Answer: b

Explanation:

The image embedded in given figure is as shown below:

No.	Option	Question	Answer
1.			Embedded
2.			Not Embedded
3.			Not Embedded
4.			Not Embedded

Hence, "Option 2" is the correct answer.

21. Answer: c

Explanation:

The logic followed here is:

Word	is Called
Sky	Earth
Earth	Water
Water	Air
Air	Light
Light	Sound

So, Humans breathe in Air.

And, 'Air' is called 'Light'.

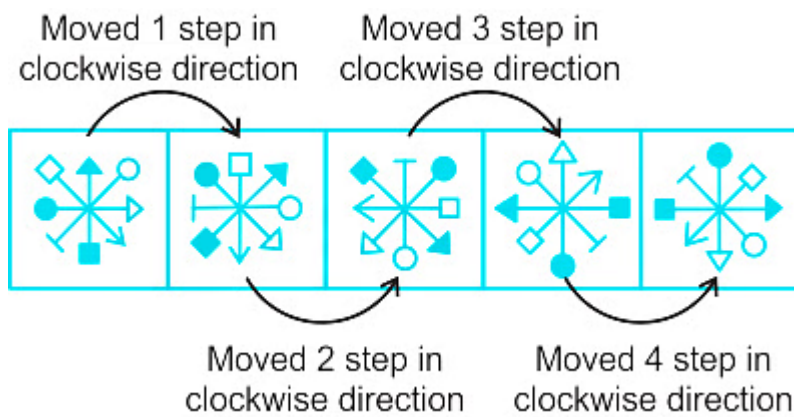
Hence, the correct answer is "Option (3)".

22. Answer: c

Explanation:

The logic followed here is:

The images are rotated in the next boxes.



Hence, the correct answer is "Option 3".

23. Answer: d

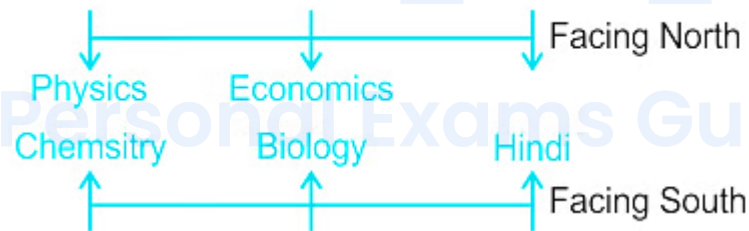
Explanation:

Given: Six books Hindi, Biology, Mathematics, Economics, Physics, Chemistry. Two racks facing each other with three books in each rack.

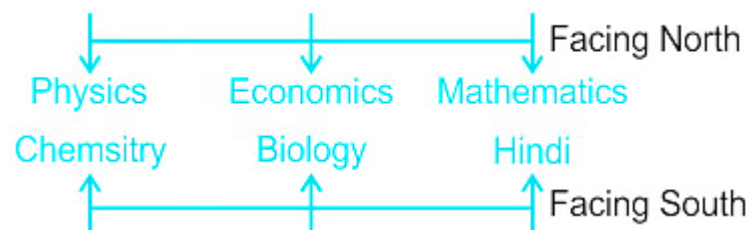
- 1) Biology is just left of Hindi facing South direction.
- 2) Hindi and Chemistry are in the same rack but are not neighbours.



- 3) Biology is placed exactly opposite to Economics.
- 4) Physics is exactly opposite to Chemistry.



And, Mathematics will kept on the remaining place.



Here, 'Mathematics ' is placed exactly opposite to Hindi.

Hence, the correct answer is "Option 4" .

24. Answer: c

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, TNG : RLD



Similarly, for LAC :



So, 'LAC' will be coded as 'JYZ'.

Hence, the correct answer is "Option 3".

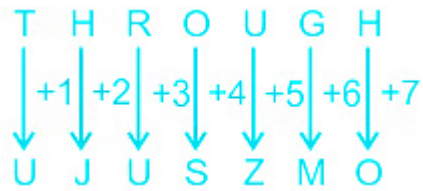
25. Answer: c

Explanation:

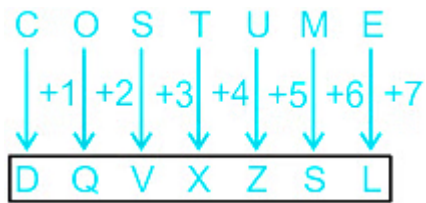
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:

For, THROUGH : UJUSZMO



Similarly, for COSTUME :



So, ' COSTUME ' will be coded as ' DQVXZSL '.

Hence, the correct answer is "Option 3".

26. Answer: b

Explanation:

GIVEN:

Aadish can complete a work in 14 days

FORMULA USED:

The fraction of work left is given by the number of days left divided by the total number of days.

CALCULATION:

Aadish can complete the work in 14 days.

As he works for 8 days, so $14 - 8 = 6$ days of work is left.

The fraction of work left is given by $6/14 = 3/7$.

∴ Option 2 is the correct answer.

27. Answer: b

Explanation:

Calculation:

According to the question:

$$\text{Average} = (12000 + 10000 + 5000 + 20000 + 15000)/5 = 12,400$$

∴ Option 2 is the correct answer.

28. Answer: c

Explanation:

Given:

$$\text{Radius} + \text{Diameter} = 42 \text{ cm}$$

Formula used:

$$\text{Diameter} = 2 \times \text{Radius}$$

$$\text{Circumference} = 2\pi r$$

Calculations:

Let the radius be R then, Diameter be 2R.

Now, according to the question,

$$\Rightarrow 2R = 42$$

$$\Rightarrow R = 21$$

$$\text{So, The circumference} = 2\pi r = 2 \times \frac{22}{7} \times 21 = 132 \text{ cm}$$

Now, the difference between Circumference and radius is

$$\Rightarrow 132 - 21$$

$$\Rightarrow 111 \text{ cm}$$

Hence, the required difference is 111 cm.

29. Answer: c

Explanation:

Given:

We have to find the average of the first 15 multiples of 11

Concept used:

Average = Sum of all observations/Number of observations

The Sum of the first n natural number = $n(n + 1)/2$

Calculation:

$$\text{Sum of first 15 multiples of 11} = 11 \times [15(15 + 1)/2]$$

$$\Rightarrow 11 \times 120 = 1320$$

$$\text{The average of the First 15 multiples of 11 is} = 1320/15 = 88$$

\therefore The average of first 15 multiples of 11 is 88.

30. Answer: c

Explanation:

Given:

A can finish a piece of work in 40 days.

A and B can complete the same work in 24 days.

Formula used:

$$\text{Total Work} = \text{Efficiency} \times \text{Time}$$

Calculation:

Let the total work be 120 units [LCM of 24, 40]

$$\text{Efficiency of A and B} = 120/24 = 5 \text{ units/day}$$

$$\text{Efficiency of A} = 120/40 = 3 \text{ units/day}$$

$$\text{So, Efficiency of B} = \text{Eff. (A + B)} - \text{Effi. (A)}$$

$$\Rightarrow \text{Efficiency of B} = 5 - 3 = 2 \text{ unit/ day}$$

$$\text{So, Time required to complete the work by B} = \text{Total work} / \text{Efficiency of B}$$

$$\Rightarrow \text{Required time} = 120/2 = 60 \text{ days}$$

\therefore The required time to complete the work by B alone is 60 days.

31. Answer: d

Explanation:

Given

Amit's salary is 75% of Aman's salary.

Salary of Amit increases by 40% and salary of Aman increases by 10%

Calculation:

Let the salary of Aman is $100x$.

So according to the question

Amit's salary is 75% of Aman's salary.

So the salary of Amit will be $75x$.

As salary of Amit increases by 40% so new salary will be $105x$.

As salary of Aman increases by 10% so new salary will be $110x$.

Percentage Increase in Aman salary than Amit's salary is given by

$$\Rightarrow (110x - 75x) / 75x \times 100$$

$$\Rightarrow 46.67\%$$

\therefore Option 4 is the correct answer.

32. Answer: a

Explanation:

Calculation:

$$0.0045 \div 4.5 \times 100 - 45 \div 5$$

$$\Rightarrow 45/450 - 9$$

$$\Rightarrow 0.1 - 9$$

$$\Rightarrow -8.9$$

\therefore Option 1 is the correct answer.

33. Answer: d

Explanation:

Given:

Two numbers are in the ratio of 3 : 5.

Their HCF is 8.

Concept used:

1. If P is the HCF of A and B then $A = P \times m$ & $B = P \times n$. (Where m and n are arbitrary positive integers and they are co-prime to each other)

Calculation:

$$\text{First number} = 3 \times 8 = 24$$

$$\text{Second number} = 5 \times 8 = 40$$

\therefore Option 4 is the correct answer.

34. Answer: c

Explanation:

Given:

Principal = Rs. 12000

Time period = 2 years

Rate = 5 %

Formula used:

$$\text{Amount} = \text{Principal} (1 + \text{Rate}/100)^n$$

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Calculation:

$$\text{Amount} = 12000 \left(1 + \frac{5}{100}\right)^2$$

$$\text{Amount} = 30 \times 441$$

$$\text{Amount} = \text{Rs. } 13,230$$

∴ A will get Rs. 13,230 on the maturity of the fixed deposit.

35. Answer: b

Explanation:

Given:

$$\text{Distance covered in downstream} = 12 \text{ km/h}$$

$$\text{Distance covered in upstream} = 4 \text{ km/h}$$

Concept used:

$$\text{Downstream speed} = (x + y) \text{ km/h}$$

$$\text{Upstream speed} = (x - y) \text{ km/h}$$

Calculation:

Let the speed of the boat and stream be x km/h and y km/h respectively.

According to the above concept

$$\Rightarrow (x + y) = 12 \text{ km/h} \dots(1)$$

$$\Rightarrow (x - y) = 4 \text{ km/h} \dots(2)$$

Adding equations (1) and (2), we get

$$\Rightarrow 2x = 16$$

$$\Rightarrow x = 8 \text{ km/h}$$

\therefore The speed of a boat in still water is 8 km/h.

36. Answer: b

Explanation:

Calculation:

The total number of bottles sold during the given week is given by:

$$81 + 39 + 63 + 77 + 90 = 350$$

The total number of cups sold during the given week is given by:

$$68 + 72 + 93 + 87 + 60 = 380$$

According to the question

$$\Rightarrow 350/380 \times 100$$

$$\Rightarrow 92.11\%$$

\therefore Option 2 is the correct answer.

37. Answer: a

Explanation:

Given:

Selling price (SP) of article = $(7/11)$ of Market Price (MP)

Loss percentage = 20%

Concept used:

$$\text{Profit\%} = \left[\frac{(\text{SP} - \text{CP})}{\text{CP}} \right] \times 100$$

where

SP = Selling price

CP = Cost price

Calculation:

Let the cost price of the article be Rs. x and the marked price of article be Rs. y .

$$\text{Profit\%} = \left[\frac{(\text{SP} - \text{CP})}{\text{CP}} \right] \times 100$$

$$20 = \frac{\text{SP} - x}{x} \times 100$$

$$\frac{1}{5} = \frac{x - \text{SP}}{x}$$

$$x = 5x - 5 \times \text{SP}$$

$$4x = 5 \times \text{SP}$$

$$\text{SP} = \frac{4x}{5}$$

Also,

$$\text{SP of article} = \left(\frac{7}{11} \right) \times y$$

$$\text{SP} = \left(\frac{7y}{11} \right)$$

Equating the SP, we get

$$\frac{4x}{5} = \frac{7y}{11}$$

$$\frac{y}{x} = \frac{11 \times 4}{5 \times 7}$$

$$\frac{y}{x} = \frac{44}{35}$$

$$y : x = 44 : 35$$

\therefore Ratio of Market price to cost price of article is 44 : 35.

38. Answer: a

Explanation:

Given:

$$A = \frac{2}{3} + \frac{4}{7} \text{ of } \frac{14}{12} \text{ and } B = \frac{5}{12} \text{ of } \frac{7}{15} \times \frac{36}{21}$$

Concept used:

Follow the BODMAS rule according to the table given below:

B	Brackets in order (), {}, []	ब्रैकेट (), {}, [] क्रम में
O	of	का
D	Division (÷)	विभाजन (÷)
M	Multiplication (×)	गुणा (×)
A	Addition (+)	जोड़ (+)
S	Subtraction (-)	घटाव (-)

Calculation:

$$A = \frac{2}{3} + \frac{4}{7} \text{ of } \frac{14}{12}$$

$$\Rightarrow A = \frac{2}{3} + \frac{2}{3}$$

$$\Rightarrow A = \frac{4}{3}$$

$$\Rightarrow B = \frac{5}{12} \text{ of } \frac{7}{15} \times \frac{36}{21}$$

$$\Rightarrow B = \frac{1}{3} \times \frac{3}{3}$$

$$\Rightarrow B = \frac{1}{3}$$

Now A + B,

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$$\Rightarrow A + B = 4/3 + 1/3$$

$$\Rightarrow A + B = 5/3$$

\therefore Option 1 is the correct answer.

39. Answer: b

Explanation:

Calculation:

Kapila bought 100 frocks at the rate of 320 each.

The total price of all frocks = $320 \times 100 = 32000$.

Travel expenditure = 1000

Labour expenditure = 500

Total price for all expenditure = $32000 + 1000 + 500 = 33500$

New price of each frock = $33500/100 = 335 + 1.50 = 336.5$

Note that profit must be 10%.

So, the new cost of a frock will be.

$$\Rightarrow 336.5 \times 110/100$$

$$\Rightarrow 370.15$$

\therefore Option 2 is the correct answer.

40. Answer: d

Explanation:

GIVEN:

$$\text{Speed} = 6 \text{ m/sec}$$

$$\text{time} = 2 \text{ hours}$$

FORMULA USED:

$$\text{Speed} = \text{distance}/\text{time}$$

$$\Rightarrow \text{distance} = \text{speed} \times \text{time}$$

CALCULATION:

$$\text{Speed of the car} = 6 \text{ m/sec}$$

$$\text{Time} = 2 \text{ hour} = 2 \times 60 \times 60 = 7200 \text{ sec}$$

$$\text{Distance travelled} = 6 \times 7200 = 43200 \text{ m} = 43.2 \text{ km}$$

41. **Answer: c**

Explanation:

Calculation:

$$\frac{1}{2} : x :: x : \frac{1}{8}$$

$$\Rightarrow x^2 = 1/2 \times 1/8$$

$$\Rightarrow x^2 = 1/16$$

$$\Rightarrow x = 1/4$$

\therefore Option 3 is the correct answer.

42. **Answer: a**

Explanation:

Given:

The average of 10 consecutive integers is $\frac{11}{2}$

Calculations:

Let the 10 consecutive integers be $x, (x + 1), (x+2), (x+3), (x+4), (x+5), (x+6), (x+7), (x+8), (x+9)$

$$\text{Average} = [x+(x+1)+(x+2)+(x+3)+(x+4)+(x+5)+(x+6)+(x+7)+(x+8)+(x+9)]/10 = 11/2$$

$$\Rightarrow (10x + 45) = (11/2) \times 10$$

$$\Rightarrow 10x = 55 - 45$$

$$\Rightarrow x = 10/10 = 1$$

the Smallest four of these integers

$$= x + (x + 1) + (x+2) + (x+3)$$

$$= 1 + 2 + 3 + 4$$

Average of the first four integers

$$= (10)/4$$

$$= 2.5$$

\therefore The required Average is 2.5.

43. Answer: d

Explanation:

Given:

Ritika bought some shirts at the rate of 10 for Rs 8000 and sold them at the rate of 12 for Rs 9000

Formula used:

$$SP = CP + \text{Profit}$$

$$\text{Profit} = CP \times (\text{Profit percentage} / 100)$$

Calculation:

The cost price of each Shirt is $(8000/10) = \text{Rs } 800$

The selling price of each Shirt is $(9000/12) = \text{Rs } 750$

Loss after selling each Shirt is $800 - 750 = \text{Rs } 50$

So the Loss percentage is $(50/800) \times 100 = 6.25\%$

Her loss percentage is 6.25%

44. Answer: b

Explanation:

Given:

No of students = 60

Girls : Boys = 2 : 3

Calculation:

The ratio of Girls to Boys in school = $2 : 3$
 $\begin{array}{c} \underbrace{} \\ 5 \\ \downarrow \\ 60 \end{array}$

\Rightarrow No. of Girls = $2 \times 12 = 24$

\Rightarrow No. of Boys = $3 \times 12 = 36$

⇒ When 20 girls more entered in the class then,

⇒ New number of girls = $24 + 20 = 44$

⇒ The new number of girls in the class is 44.

∴ Option 2 is the correct answer.

45. Answer: d

Explanation:

Given :

The average weight of 6 people is 30 kg.

The average weight becomes 28 kg when a new member joins.

Formula used :

Average = Sum of all observation values/Number of observations

Calculations :

According to the question

Total weight of the 6 people = $30 \times 6 = 180$ kg

Weight of the 7 people including new person = $28 \times 7 = 196$ kg

Weight of the New person = $196 - 180$

⇒ 16 kg

∴ The weight of the new person is 16 Kg.

46. Answer: a

Explanation:

Given:

$$P = 24000$$

$$R = 5\%$$

$$T = 4 \text{ Year}$$

Formula used:

$$S. I = \frac{PRT}{100}$$

Where I = Simple Interest, P is the principal, R is the rate of interest, and T is the time period.

Calculation:

$$\text{Using } S. I = \frac{PRT}{100},$$

$$\Rightarrow S.I = \frac{(24000 \times 5 \times 4)}{100} = \text{Rs } 4,800$$

$$\therefore \text{Simple interest} = \text{Rs. } 4,800$$

47. Answer: a

Explanation:

Given:

The ratio of the surface areas of two spheres = 64 : 81

Formula used:

$$\text{The surface area of the sphere} = 4\pi r^2$$

$$\text{The volume of the sphere} = \frac{4}{3}\pi r^3$$

where r is the radius of the sphere

Calculation:

let r_1 and r_2 be the radius of the sphere

$$\frac{(\text{surface area of the sphere})_1}{(\text{surface area of the sphere})_2} = 64/81$$

$$\Rightarrow \frac{4\pi r_1^2}{4\pi r_2^2} = 64/81$$

$$\Rightarrow r_1/r_2 = 8/9$$

$$\Rightarrow \frac{(\text{The volume of the sphere})_1}{(\text{The volume of the sphere})_2} = \frac{(4/3)\pi r_1^3}{(4/3)\pi r_2^3}$$

$$\Rightarrow \frac{(\text{The volume of the sphere})_1}{(\text{The volume of the sphere})_2} = (r_1/r_2)^3$$

Put value $r_1/r_2 = 8/9$ in above equation

$$\Rightarrow \frac{(\text{The volume of the sphere})_1}{(\text{The volume of the sphere})_2} = (8/9)^3$$

$$\Rightarrow \frac{(\text{The volume of the sphere})_1}{(\text{The volume of the sphere})_2} = 512 : 729$$

\therefore The ratio of the volume of the sphere is 512 : 729.

48. Answer: a

Explanation:

Given:

The surface area of the sphere = 1386 cm^2

Formula used:

The surface area of a sphere = $4\pi r^2$

Calculations:

The surface area of a sphere = $4\pi r^2$

$$\Rightarrow 4\pi r^2 = 1386$$

$$\Rightarrow 4 \times (22/7) \times r^2 = 1386$$

$$\Rightarrow r^2 = (1386 \times 7)/(4 \times 22)$$

$$\Rightarrow r^2 = (63 \times 7)/4 = 441/4$$

$$\Rightarrow r^2 = \sqrt{(441/4)} = 21/2 = 10.5 \text{ cm}$$

\therefore Option 1 is the correct answer.

49. Answer: a

Explanation:

Calculation:

According to the question:

Note that height is reduced by 10%.

$$50 \times 90\% = 45 \text{ m}$$

\therefore Option 1 is the correct answer.

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50. Answer: d

Explanation:

Calculation:

The total number of kids is 160.

The percentage of kids who like ice cream is 25%.

According to the question:

$$160 \times 25\% = 40$$

∴ Option 4 is the correct answer.

51. Answer: c

Explanation:

The correct answer is: **Cruel and unfair.**

★ Key Points

- The correct meaning of the idiom "**below the belt**" is: **Cruel and unfair**
- This phrase is often used to describe actions or words that are considered to be **unfair, unjust, or inappropriate.**
- It comes from the sport of boxing, where hitting an opponent below the belt is against the rules and considered to be unfair.
 - Example: Making personal attacks on someone during an argument is considered to be **hitting below the belt.**
- Option 1 and 2 are incorrect because they do not relate to the actual meaning of the idiom. Option 4 is not related to the actual meaning of the phrase, and there is no suspicion implied in the idiom "below the belt."
- Therefore, the correct answer is: **Option 3.**

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52. Answer: d

Explanation:

The correct answer is **No improvement required.**

★ Key Points

- The correct answer is **option 4) No improvement required.**
- The original sentence is already grammatically correct and conveys the intended meaning effectively. It is written in the past perfect tense, "**had just**

passed", indicating that the birthday had passed a short time before the time of narration.

- The adverb "**unnoticed**" correctly describes that nobody except herself acknowledged her birthday.
- **Option 1)** changes the meaning of the sentence by using the phrase "but all" instead of "all but." This would mean that everyone noticed her birthday except herself, which is opposite to what is intended.
- **Option 2)** uses the present perfect tense, "has just passed", which is not appropriate because the narration is in the past.
- **Option 3)** is similar to option 1) by using "but all" instead of "all but." It suffers from the same problem of changing the meaning of the sentence.
- Therefore, the original sentence is the best choice, and no improvement is required.

53. **Answer: c**

Explanation:

The correct answer is - **He sat down in a darkly corner.**

★ **Key Points**

- The error in the original sentence is the use of "**darkly**" instead of "**dark**".
- "**Darkly**" is an adverb that describes how something is done, while "**dark**" is an adjective that describes a noun.
- In this sentence, we need an **adjective** to describe the noun "**corner**", so "**dark**" should be used instead of "**darkly**".
- Thus, the correct answer is **Option 3.**

The correct sentence would be: "He sat down in a dark corner and covered his face, and would not say a single word to anyone."

54. **Answer: c**

Explanation:

The correct answer is – **After kill a.**

★ Key Points

- The correct answer is **option 3) "after kill a."**
- The sentence is in the wrong grammatical form. To express the action of the goons, the verb "**killing**" should be used in its "**-ing**" form.
- **Option 1) "No error"** is not the correct answer because the sentence contains an error.
- **Option 2) "boy in the street"** is grammatically correct and describes the location of the incident.
- **Option 4) "The goons fled"** is grammatically correct and describes the action of the goons.
- Therefore, **option 3)** contains the error of using the incorrect verb form, and the corrected sentence would be as mentioned above.

The corrected sentence would be: "*The goons fled after killing a boy in the street.*"

55. Answer: c

Explanation:

The correct answer is option 3) pane.

★ Key Points

- The sentence means that someone smashed a piece of glass with a metal vase.
- The word that best fits the blank is "pane", which means a flat piece of glass or a single sheet of glass in a window or door.
- Option 1) "pion" is not a correct word in this context.
- Option 2) "pawn" is a chess piece and not related to the given sentence.

- Option 4) "pain" refers to physical or emotional suffering and is not appropriate in this context.
-

56. Answer: a

Explanation:

The correct answer is option 1) many.

★ Key Points

- The sentence means that the speaker has visited multiple coaching institutes in the listener's region.
- The word that best fits the blank is "many", which is used to refer to a large number of countable objects.
- Option 2) "mostly" means mainly or for the most part, and is not appropriate in this context.
- Option 3) "much" is used for uncountable nouns and refers to a large quantity or amount, so it is not appropriate in this context.
- Option 4) "any" is used in negative or interrogative sentences, and does not fit the meaning of the sentence as it implies that the speaker may not have visited any coaching institutes at all.

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57. Answer: d

Explanation:

The correct answer is option 4) Emerge.

★ Key Points

- The antonym of "vanish" is a word that means to appear or become visible, which is the opposite of disappearing. The word that best fits this description is "emerge".

- Option 1) "Disappear" is a synonym of "vanish" and not its antonym.
 - Option 2) "Depart" means to leave, and is not an antonym of "vanish".
 - Option 3) "Conquer" means to overcome or defeat, and is not an antonym of "vanish".
-

58. Answer: d

Explanation:

The correct answer is **option 4) Dire**.

★ Key Points

Let's understand the meaning of the given and the marked word.

- The word "acute" is an adjective that can mean **severe, intense, or sharp**.
 - **Example:** The company faced an **acute** shortage of skilled workers, causing delays in production.
- The word that best fits this meaning is "**dire**", which means **extremely serious or urgent**.
 - **Example:** The storm caused **dire** consequences, leaving thousands of people without power and causing extensive property damage.
- Both "acute" and "dire" can convey a sense of seriousness or urgency. Thus, they are **synonyms**.

★ Additional Information

- Option 1) "Obtuse" means slow to understand or blunt, and is not a synonym of "acute".
 - Option 2) "Faithful" means loyal or devoted, and is not a synonym of "acute".
 - Option 3) "Chronic" means ongoing or long-lasting, and is not a synonym of "acute".
-

59. Answer: d

Explanation:

The correct answer is – 4) Stay alive during hard times.

★ Key Points

- The idiom "**keep body and soul together**" means to **survive or sustain oneself**, especially during difficult or challenging times.
- It implies the struggle to meet basic needs such as food, shelter, and clothing.
- So, the option that best describes the meaning of this idiom is to "**stay alive during hard times.**"

60. Answer: d

Explanation:

The correct answer is 4) blurred.

★ Key Points

- The sentence describes that **someone pushed the speaker so hard that their vision got affected for a second.**
- The blank requires a word that expresses the temporary loss of vision.
- Among the given options, "**blurred**" is the most appropriate choice because it means something that is not clear or sharp, which is the case when someone experiences a momentary loss of vision.
- The other options do not convey the intended meaning in the given context.
- Therefore, the correct option to fill in the blank is "**blurred.**"

61. Answer: b

Explanation:

The correct answer is – 2) in.

★ Key Points

- The sentence describes the action of organizing a dressing table by putting all the rubber bands in a drawer. The blank requires a preposition that expresses the location of the rubber bands.
- The most appropriate option is "in" because it expresses the idea of putting something inside a container or space.
- The prepositions "for," "on," and "at" do not fit in the context of the sentence.
- Therefore, the correct option to fill in the blank is "in."

62. **Answer: c**

Explanation:

The correct answer is option 3) is going to.

★ Key Points

- The sentence is in the future tense, so the correct form of the verb is "is going to".
- This means that the action is planned or intended to happen in the future.
- Option 1) "went to" is in the past tense and is not appropriate in this context.
- Option 2) "has gone to" is in the present perfect tense, which implies that the action is already completed, and is not appropriate in this context.
- Option 4) "No improvement required" is not correct, as the verb tense needs to be corrected to match the intended meaning of the sentence.

63. **Answer: a**

Explanation:

The correct answer is option 1) "went to sleep."

★ Key Points

- The sentence written in the past tense, so the correct form of the verb "to sleep" is "slept."
 - Option 1) correctly uses the past tense "went to sleep" to describe the action of the subject after blowing out the candle.
 - Option 2) "go on sleep" is not a grammatically correct phrase.
 - Option 3) "No improvement required" is not correct, as there is an error in the original sentence.
 - Option 4) "gone to sleep" is the past participle form of the verb, and is not appropriate in this context. The simple past tense is required.
-

64. Answer: d

Explanation:

The correct answer is "passionate" (Option 4).

★ Key Points

- The word "ardent" means having intense feelings of enthusiasm or devotion towards something or someone.
 - The word "passionate" also has a similar meaning, and therefore, it is the most appropriate synonym for "ardent" in the given sentence.
 - Option 1, "averse," means having a strong dislike or opposition to something and is the opposite of "ardent."
 - Option 2, "objective," means impartial and unbiased, which is not relevant in the context of the sentence.
 - Option 3, "casual," means relaxed and informal, which is also not relevant in the context of the sentence.
-

65. Answer: a

Explanation:

The correct answer is 1) **inimical**.

★ Key Points

- The sentence suggests that most mainliners (likely referring to members of mainline Protestant churches) do not consider modern culture as being **hostile or harmful to religious belief**.
- The word "**inherently**" implies that the cultural elements themselves are not fundamentally opposed to religious belief, so we need a word that means something along the lines of "hostile" or "opposed."
- Among the options given, the only word that fits is "**inimical**," which means **harmful or unfriendly**.
- Option 2) "**inchoate**" means **undeveloped or not fully formed**, which does not make sense in the context of the sentence.
- Option 3) "**inconclusive**" means **not leading to a definite conclusion**, which is also not appropriate in this context.
- Option 4) "**inadvertent**" means unintentional or accidental, which is also not appropriate in this context.

66. Answer: c

Explanation:

The correct option is 3) **A number of measures have been suggested by her.**

★ Key Points

- The words "measres" and "sugested" in the original sentence are misspelled.
- The correct spelling of these words is "**measures**" and "**suggested**" respectively.
- Therefore, **option 3**) correctly spells these words and is the correct option.
- **Option 1**) misspells "measures" and "suggested".
- **Option 2**) misspells "measures" and has an extra letter in "suggested". Option 4) misspells "measures".

67. Answer: b

Explanation:

The correct answer is - **Ordinary**.

★ Key Points

- The most appropriate antonym of "outstanding" is "ordinary."
- "Outstanding" means **exceptional, excellent, or remarkable**. The opposite or antonym of "outstanding" would be a word that means average, ordinary, or unremarkable.
- "**Astounding**" means surprising or shocking, which is not the opposite of outstanding.
- "**Ordinary**" means plain, average, or usual, which is the most appropriate antonym of outstanding.
- "**Remarkable**" is a synonym of outstanding, not its antonym.
- "**Honest**" means truthful or sincere, which is not related to the meaning of outstanding.
- Therefore, option 2) **Ordinary** is the correct antonym of the given word "outstanding."

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68. Answer: b

Explanation:

The INCORRECTLY spelt word is 2) "**specielist**".

★ Key Points

- The correct spelling is "specialist", which refers to a person who is an expert in a particular field or subject.
- Option 1) "**Chauffeur**" is spelled correctly, and it refers to a person employed to drive a private or rented car.

- Option 3) "**Anchor**" is spelled correctly, and it refers to a person who presents and coordinates a television or radio program.
- Option 4) "**Compere**" is spelled correctly, and it refers to a person who hosts a public or entertainment event.

Therefore, the correct answer is 2) "**specielist**" (Correct spelling of the word is 'specialist').

69. **Answer: a**

Explanation:

The correct option is 1) "**When**".

★ Key Points

- "When" is a conjunction that indicates a point in time, and it is commonly used to introduce a clause that specifies the time something happened.
- In this sentence, "when" is the most appropriate option to fill in the blank because it introduces the clause that explains the specific time the speaker became delighted, which is when they learned that there was a gift for each child.

★ Additional Information

- Option 2) "**Though**" is a conjunction that indicates a contrast or concession between two ideas, and it is not suitable in this context.
 - Option 3) "**While**" is a conjunction that indicates that two actions are happening at the same time, and it is not suitable in this context.
 - Option 4) "**Which**" is a relative pronoun used to introduce a relative clause that provides additional information about a noun, and it is not suitable in this context.
 - Therefore, the correct answer is 1) "**When**".
-

70. Answer: c

Explanation:

The correct answer is – salary of their living.

★ Key Points

- The phrase "salary of their living" is not correct because it does not convey the intended meaning.
- The preposition "of" implies possession, which means the phrase would be interpreted as "the salary belonging to their living", which doesn't make sense.
- Instead, the correct preposition to use is "for", which indicates the purpose of the salary. The phrase "salary for their living" means that the salary is being used to support their living expenses.
- So, the corrected sentence is "**Both of my parents are dependent on my salary for their living**", which means that the speaker's parents rely on their salary to meet their basic needs and cover their expenses.

71. Answer: c

Explanation:

Here the correct answer is **Make**.

★ Key Points

- The correct answer for **blank number 1** is "**make**."
- The sentence is referring to forests being cleared to make way for palm oil plantations, which means that the forests are being removed to create space for the palm oil plantations to be established.
- Moreover, '**to**' is followed by the **first form of the verb**.
- **Option 1) "made"** is not the correct answer because it does not fit grammatically in the sentence. It cannot be used because 'to' will be followed

by the first form of the verb.

- **Option 2) "take"** is not the correct answer because it is not the right word to express the idea of creating space for something else.
- **Option 4) "give"** is not the correct answer because it is not the right word to express the idea of creating space for something else.
 - Example: The construction crew will clear the land to **make way** for the new shopping mall.
 - In this example, the phrase "**make way**" is used to indicate that the land will be cleared to create space for the new shopping mall.
- Overall, the correct answer is "**make**," as it fits the context of the sentence and effectively communicates the intended meaning.
- Thus, the correct answer is **Option 3**.

Correct Paragraph: Many forests are cleared to (1) **make** way for palm oil plantations. Palm oil is the most (2) _____ produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

72. Answer: a

Explanation:

Here the correct answer is **Commonly**.

★ Key Points

- The correct answer for **blank number 2** is "**commonly**".
- The word "**commonly**" means **frequently or usually**.
- In the given context, it means that palm oil is produced more frequently or commonly than any other vegetable oil.
- **Examples:**
 - Pizza **commonly** includes tomato sauce as a base.
 - In the US, hamburgers and hot dogs are **commonly** eaten at barbecues.
 - English is **commonly** spoken as a second language in many countries.

- Thus, the correct answer is **Option 1**.

Correct Paragraph: Many forests are cleared to (1) make way for palm oil plantations. Palm oil is the most (2) **commonly** produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) _____ food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

★ Additional Information

- The other options and their meanings are:
- "**casually**" means relaxed or informal, which doesn't fit the context of the sentence.
- "**lovingly**" means with affection or care, which is not relevant to the topic of palm oil production.
- "**usually**" means most of the time or in most cases, which is a similar meaning to "commonly". However, "usually" doesn't fit as well as "commonly" in the context of this sentence, as it doesn't convey the sense of palm oil being produced more frequently than other vegetable oils.

73. Answer: a

Explanation:

Here the correct answer is **Both**.

★ Key Points

- The word "**both**" indicates that palm oil can be added to both food and personal products like lipsticks and shampoo.
- It's a suitable option to fill in **blank number 3**.
- **Examples:**
 - Palm oil is used in **both** cooking oil and beauty products like soap and lotion.
 - **Both** the salad dressing and the cake recipe call for palm oil.

- Thus, the correct answer is **Option 1**.

Correct Paragraph: Many forests are cleared to (1) make way for palm oil plantations. Palm oil is the most (2) commonly produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) both food and personal products like lipsticks and shampoo. (4) _____ popularity has (5) _____ people to clear tropical forests to grow more palm trees.

★ Additional Information

- **Option 2, "each"**, is not a suitable option.
- **Option 3, "one"**, is not a suitable option for this blank because it indicates that palm oil can only be added to one specific product.
- **Option 4, "between"**, is not a suitable option for this blank because it indicates a choice between two options, rather than the combination of two options.

74. Answer: b

Explanation:

Here the correct answer is **Its**.

★ Key Points

- The most appropriate option to fill in the blank is **"Its."**
- The sentence refers to the popularity of palm oil, and how this popularity has led to the clearing of forests to grow more palm trees.
- Here, **"its"** refers to the popularity of palm oil, and how this popularity has contributed to deforestation.
- "Its" is a possessive pronoun that indicates ownership or belonging to something.
 - For example, "The cat licked its paws" - here, "its" shows that the paws belong to the cat.
- On the other hand, "It's" is a contraction of "it is" or "it has."
 - For example, "It's a beautiful day outside" means "It is a beautiful day outside," and "It's been a long time since we last met" means "It has been

a long time since we last met."

- It is important to use these two correctly because they have different meanings, and using them interchangeably can change the meaning of a sentence.
- Therefore, **option 2, "its"** is the correct choice.
 - Example: The cat licked **its** paws.
- Thus, the correct answer is **Option 2**.

*Correct Paragraph: Many forests are cleared to (1) make way for palm oil plantations. Palm oil is the most (2) commonly produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) both food and personal products like lipsticks and shampoo. (4) **Its** popularity has (5) _____ people to clear tropical forests to grow more palm trees.*

★ Additional Information

- Other options:
- **"Our"** does not fit in the context of the sentence because it implies that the speaker is a part of the cause of deforestation, which is not stated or implied in the sentence.
- **"Its"** is the correct choice, as explained above.
- "It's" is a contraction of **"it is"** and does not fit in the context of the sentence. The sentence requires a possessive pronoun, which "it's" is not.
- **"Their"** implies that someone else is responsible for the popularity of palm oil, which is not stated or implied in the sentence.

75. Answer: d

Explanation:

Here the correct answer is **Prompted**.

★ Key Points

- The most appropriate option to fill in the blank is **"prompted."**

- The sentence refers to the popularity of palm oil and how it has led people to clear tropical forests to grow more palm trees.
- **"Prompted"** means **to encourage or motivate someone to do something**, which fits well in the context of the sentence.
- Therefore, **option 4, "prompted,"** is the correct choice.
- **Examples:**
 - The teacher's encouragement **prompted** the student to study harder.
 - The rainy weather **prompted** us to stay inside all day.
- Thus, the correct answer is **Option 4.**

Correct Paragraph: Many forests are cleared to (1) make way for palm oil plantations. Palm oil is the most (2) commonly produced vegetable oil and is found in half of all supermarket products. It's cheap, versatile and can be added to (3) both food and personal products like lipsticks and shampoo. (4) Its popularity has (5) prompted people to clear tropical forests to grow more palm trees.

★ Additional Information

- **Other options:**
- **"Baffled"** means to confuse or puzzle someone, which does not fit in the context of the sentence.
- **"Delighted"** means to be very happy or pleased with something, which does not fit in the context of the sentence.
- **"Curated"** means to carefully select and organize something, which does not fit in the context of the sentence.

76. Answer: b

Explanation:

The correct answer is Challenger Deep.

★ Key Points

- The lowest point of the Pacific Ocean is Challenger Deep in the Mariana Trench.

- The Mariana Trench is part of a global network of deep troughs that cut across the ocean floor.
- They form when two tectonic plates collide.
- At the collision point, one of the plates dives beneath the other into the Earth's mantle, creating an ocean trench.
- Located in the western Pacific east of the Philippines and an average of approximately 124 miles (200 kilometers) east of the Mariana Islands.
- The Mariana Trench is a crescent-shaped scar in the Earth's crust that measures more than 1,500 miles (2,550 kilometers) long and 43 miles (69 kilometers) wide on average.
- The distance between the surface of the ocean and the trench's deepest point the Challenger Deep, which lies about 200 miles (322 kilometers) southwest of the U.S. territory of Guam is nearly 7 miles (11 kilometers).
- If Mount Everest were dropped into the Mariana Trench, its peak would still be more than a mile (1.6 kilometers) underwater.
- The majority of the Mariana Trench is now a U.S. protected zone as part of the Marianas Trench Marine National Monument, established by President George W. Bush in 2009.

★ Additional Information

- Java Trench, also called Sunda Double Trench, deep submarine depression in the eastern Indian Ocean that extends some 2,000 miles (3,200 km) in a northwest-southeast arc along the southwestern and southern Indonesian archipelago.
- The deepest part of the Atlantic Ocean is situated in the Milwaukee Deep within the east-west oriented Puerto Rico Trench.
 - Which is located around 120 km north of the island of Puerto Rico

77. Answer: d

Explanation:

The correct answer is Padma Shri.

★ Key Points

- Mrinalini Sarabhai is famous for Bharatanatyam.
- Mrinalini's older sister Lakshmi Sehgal was the commander-in-chief of the Rani of the Jhansi regiment which was an all-women combat regiment of the Indian National Army.
- Mrinalini was born to a Tamil Brahmin father and a Malayali Nair mother in present-day Kerala on 11 May 1918. Bharatanatyam is a dance of Tamil Nadu in southern India.
- She trained over 18,000 students in Bharatnatyam and Kathak.
- She was awarded **Padma Shri in the year 1965**.

★ Additional Information

Padma Awards

- Padma Awards one of the highest civilian Awards in the country are conferred in three categories, namely, Padma Vibhushan, Padma Bhushan, and Padma Shri.
- The Awards are given in various disciplines/ fields of activities,
 - Art, social work, public affairs, science and engineering, trade and industry, medicine, literature and education, sports, civil service, etc.
- Padma Vibhushan is awarded for exceptional and distinguished service.
- Padma Bhushan for distinguished service of a high order.
- Padma Shri for distinguished service in any field.
- The awards are announced on the occasion of Republic Day every year.
- These awards are conferred by the President of India.

78. **Answer: a**

Explanation:

The correct answer is Bridge.

★ Key Points

- The Olympic Games are held every four years, alternating between the Summer and Winter Games every two years in the four-year period.
- The 2020 Summer Olympics commonly known as Tokyo 2020, is to be held in Tokyo, Japan.
- Hockey, Badminton, and Archery are the summer Olympic sports.
- Karate, roller sport, climbing, surfing, baseball, and softball are the recent sports added for 2020.
- Beijing is due to host the 2022 Winter Olympics, which will make it the first city to host both the Summer and Winter Games.

★ Additional Information

- The 2020 Olympics held in Tokyo in 2021.
- The 2022 Winter Olympics in China.
- In December 2020, it was announced that breakdancing, sport climbing, skateboarding and surfing were included as additional sports on the program for the 2024 Olympic Games in Paris
- Upcoming Olympics Events and host countries
 - Paris- 2024 Summer Olympics
 - Milan-Cortina d'Ampezzo - 2026 Winter Olympics
 - Los Angeles - 2028 Summer Olympics
 - Brisbane - 2032 Summer Olympics

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79. **Answer: a**

Explanation:

The correct answer is improve social status of leatherworkers.

★ Key Points

- Ghasidas started the Satnami movement in central India to improve the social status of leather workers.
- The most-important Satnami group was founded in 1820 in the Chattisgarh region of middle India by Ghasidas, a farm servant and member of the Chamar caste.

- His Satnam Panth (“Path of the True Name”) succeeded in providing a religious and social identity for large numbers of Chattisgarhi Chamars.
- Ghasidas is remembered for having thrown images of Hindu gods onto a rubbish heap.
- He preached a code of ethical and dietary self-restraint and social equality.

★ Additional Information

- Guru Balakdas was the son of the founder of the Chhattisgarh Satnampanth, Guru Ghasidas.
- Haridasa Thakur was a prominent Vaishnava saint known for being instrumental in the initial propagation of the Hare Krishna movement.

80. Answer: b

Explanation:

The correct answer is Regulating Act of 1773.

★ Key Points

- The Supreme Court at Calcutta was established on 22 October 1774 by the Regulating Act of 1773.
- The drawback of this act was that the powers of the SC were not clearly defined.
- It replaced the Mayor’s Court of Calcutta.
- Sir Elijah Impey was the first judge of this court.
- Lemaister was also a Puisne Judge of the Supreme Court of Calcutta.
- The Supreme Court was with One Chief Justice and three other judges.
- The judge’s term length was life tenure.

★ Additional Information

- Regulating Act of 1773 was an act of the British Government in which government takes steps first time to control and regulate the affairs of EIC in India.

- It had civil and criminal jurisdiction over the British subjects and not Indian natives.
- It has great constitutional importance.
- It prohibited the servants of the Company from engaging in any private trade or accepting presents or bribes from the natives.
- The Court formed under this act has the following composition:
 - Elijah Impey- CJI.
 - Lemaistre- Puisne Judge from 1774 to 1777.
 - John Hyde- Puisne Judge from 1774 to 1796.
 - Rober Chambers- Puisne Judge from 1774 to 1783.
 - SirWilliam Jones- Puisne judge from 1783 to 1794.
 - Sir William Dunkin- Puisne Judge from 1791.

81. Answer: a

Explanation:

The correct answer is Kiran Bedi.

★ Key Points

- Based on the ground realities of nearly five years of service as the 24th Lt Governor of Puducherry, Kiran Bedi has penned down her journey of governance in the book 'Fearless Governance'.
- It was launched by Indra Nooyi (former Chairperson and CEO of PepsiCo) and Prof Debashis Chatterjee (director, IIM Kozhikode).
- It has been published by Diamond Books.

★ Additional Information

- Some recently released books:

Books	Authors
Golden Boy Neeraj Chopra	Navdeep Singh Gill
The Legend of Birsa Munda	Tuhin A. Sinha and Ankita Verma
Bose: The Untold Story of An Inconvenient Nationalist	Chandrachur Ghose
Gajapati: A king without a kingdom	Ashok Bal
India's Ancient Legacy of Wellness	Rekha Chaudhari
Gandhitopi Governor	Yarlagadda Lakshmi Prasad
Public Service Ethics	Prabhat Kumar
Cooking to Save Your Life	Abhijit Banerjee
Resolved: Uniting Nations in a Divided World	Ban Ki-moon
Nehru: The Debates that Defined India	Tripurdaman Singh and Adeel Hussain
The Cinema of Satyajit Ray	Bhaskar Chattopadhyay

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82. Answer: d

Explanation:

The correct answer is Punjab National Bank.

★ Key Points

- Punjab National Bank is an Indian Public sector bank.
- It was first fully Indian Bank, Established by the Indian National on 19th May, 1894 by Lala Lajpat Rai.
- Punjab National Bank is presently headquartered at New Delhi.

★ Additional Information

Commercial Banks in India:

1. Public Sector Banks:

- The term “public sector banks” refers to a situation where the majority equity stake in the banks is held by the government.
- The Indian Government keeps default holdings of a minimum 51% shareholding, but management control is only with the Central Government, thereby classifying them as Public Sector Banks.
- Public sector banks include the State Bank of India and its Associates, Nationalized Banks (including Industrial Development Bank of India Ltd (IDBI) since December 2004), and Regional Rural Banks.

2. Private Sector Banks:

- They are the banks in which individuals and corporations are the majority shareholders.
- Some of the major commercial banks in India that were given licenses are ICICI Bank, HDFC Bank, Axis Bank, Yes Bank, and Kotak Mahindra Bank.

83. Answer: b

Explanation:

The correct answer is Domes.

★ Key Points

- **Indo-Islamic Architecture:**
 - A blend of **Islamic and Indian architectural styles**.
 - Flourished in the Indian subcontinent during the medieval period.
 - Developed under various dynasties including the **Delhi Sultanate, Mughals, and other Muslim rulers**.

★ Important Points

- **Domes in Indo-Islamic Architecture:**
 - A dominant feature in **Indo-Islamic architecture**.
 - Represented the idea of cosmic or divine presence.
 - Symbolized the power and authority of the ruling dynasty.
 - Built using a variety of materials **including brick, stone, and marble**.
 - Often decorated with intricate **calligraphy, geometric patterns, and floral designs**.
 - **Common types of domes include bulbous, hemispherical, and ribbed domes**.
 - Often topped with a finial or **kalash, a decorative element at the apex of the dome**.

★ Additional Information

- **Other Features of Indo-Islamic Architecture:**
 - Use of **arches, minarets, and ornamental elements**.
 - **Courtyards, gardens, and fountains** were integral parts of the architecture.
 - Influence of **Persian and Central Asian styles** can be seen in the use of tile work and **ornamental motifs**.
 - Important examples of **Indo-Islamic architecture** include the **Taj Mahal, Jama Masjid, and Qutub Minar** in India.

84. **Answer: d**

Explanation:

The correct answer is Udaan.

★ Key Points

- The 'Udaan' scheme of Rajasthan provides the rural girls of the state with scholarship schemes thus, allowing them to receive getting access to schooling
- The Udaan project has been launched in collaboration with 'IPE Global', a development consulting group.

- Benefits of Udaan Scheme:
 - Focus on keeping the girls in school
 - Focus on preventing adolescent pregnancy
 - Focus on in-school adolescent health education
 - Focus on improving contraceptive access

★ Additional Information

The Samarth Scheme

- Implemented by the Ministry of textiles The Samarth Scheme is a capacity-building initiative in the textile sector of India.
- Samarth scheme was launched in the year 2017 and it is also known as the Scheme for Capacity Building in the Textile Sector (SCBTS).
- Samarth scheme was launched in order to ensure a steady supply of skilled manpower in the highly labor-intensive textile sector of India.
- The scheme aims at the skill development of 10 lakh youth in the entire textile value chain (excluding spinning and weaving) in the organized sector.
- The Samarth scheme targets the skill development of 10 lakh youth in the entire textile value chain (excluding spinning and weaving) in the organized sector.

STARS Project

- STARS project was launched by the Government of India and the World Bank in 2020.
- The project seeks to cover 6 states- Himachal Pradesh, Rajasthan, Maharashtra, Madhya Pradesh, Kerala, and Odisha.
- STARS stands for Strengthening Teaching-Learning and Results for States.
- The STARS project is implemented as a new Centrally Sponsored Scheme under the Department of School Education and Literacy, Ministry of Education (MoE).
- These aims and objectives are aligned with the objectives of National Education Policy (NEP) 2020 of Quality-Based Learning Outcomes. Some of these are-
 - Strengthening the government-managed school education system that primarily caters to the educational needs of girls and students from

marginalized groups.

- Focus on initiatives of PM e-Vidya, Foundational Literacy, and Numeracy Mission and National Curricular and Pedagogical Framework for Early Childhood Care and Education as part of the Atmanirbhar Bharat Abhiyan.

85. Answer: a

Explanation:

The correct answer is Chandragupta I.

★ Key Points

- Chandragupta I was the first ruler of the Gupta dynasty to adopt the title of Maharajadhiraja.
- Chandragupta I was a son of the Gupta king Ghatotkacha, and a grandson of the dynasty's founder Gupta, both of whom are called Maharaja in the Allahabad Pillar inscription.
- He was also the father of Samudragupta, his next successor.
- Chandragupta I married the Lichchhavi princess Kumaradevi.
- Lichchhavi is the name of an ancient clan that was headquartered at Vaishali in present-day Bihar during the time of Gautama Buddha.

★ Additional Information

- Gupta Dynasty:
 - The founder of the Gupta dynasty was Sri Gupta.
 - He was succeeded by Ghatotkacha. These two were called Maharajas.
 - The next ruler was Chandragupta I and he was the first to be called Maharajadhiraja.
 - Chandragupta, I was succeeded by Samudragupta in about 330 A.D., who reigned for about fifty years.
 - He was a great military genius and is said to have commanded a military campaign across the Deccan, and also subdued the forest tribes of the Vindhya region.

- Samudragupta's successor Chandragupta II, also known as Vikramaditya, conquered the extensive territories of Malwa, Gujarat and Kathiawar.
- Some famous events during the rule of Gupta Kings:
 - The famous Chinese pilgrim, Fahien visited India during the reign of Chandragupta II.
 - Out of his nine years of stay in India, he spent six years in the Gupta empire.
 - Chandragupta II waged war against the Saka satraps of western India.
 - Rudrasimha III, the last ruler of the Saka satrap was defeated, dethroned, and killed. His territories in western Malwa and the Kathiawar Peninsula were annexed into the Gupta Empire.
 - Kumaragupta laid the foundation of Nalanda University.

86. Answer: b

Explanation:

The correct answer is Naypyidaw.

★ Key Points

- Myanmar:
 - Also called Burma.
 - Capital is Nay Pyi Taw.
 - Currency-Myanmar Kyat (MMT).
 - Myanmar is not a landlocked country, though it does share borders with five other Asian countries.
 - These include Thailand, China, Bangladesh, India, and Laos.

★ Additional Information

Neighbouring Country	Bordering States/UTs
Afghanistan	<ul style="list-style-type: none"> • POK part of Jammu and Kashmir • POK part of Ladakh
Bangladesh	<ul style="list-style-type: none"> • West Bengal • Mizoram • Meghalaya • Tripura • Assam
Bhutan	<ul style="list-style-type: none"> • Arunachal Pradesh • Assam • Sikkim • West Bengal
China	<ul style="list-style-type: none"> • Ladakh • Himachal Pradesh • Uttrakhand • Sikkim • Arunachal Pradesh
Myanmar	<ul style="list-style-type: none"> • Arunachal Pradesh • Manipur • Mizoram • Nagaland
Nepal	<ul style="list-style-type: none"> • Sikkim • West Bengal

	<ul style="list-style-type: none">• Bihar• Uttar Pradesh• Uttrakhand
Pakistan	<ul style="list-style-type: none">• Jammu and Kashmir• Ladakh• Punjab• Gujarat• Rajasthan

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87. Answer: a

Explanation:

The correct answer is Meghalaya.

★ Key Points

- Laho dance belongs to the state of Meghalaya in India.
- It is performed during the Behdienkhlam festival.
- It is performed by both men and women.
- Jaintiatribes perform this dance festival.
- Derogata, Dodrua, Shad nongkrem are some of the dance festivals of Meghalaya.

★ Additional Information



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Important dance forms	States
Bharatnatyam	Tamil Nadu
Kathak	Uttar Pradesh
Kathakali	Kerala
Manipuri	Manipur
Kuchipudi	Andhra Pradesh
Odissi	Odisha
Garba	Gujarat
Rouf	Kashmir
Ghoomar	Rajasthan
Chhau	Mayurbhanj
Bihu	Assam

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Lavani	Maharashtra
Mohiniyattam	Kerala
Sattriya Dance	Assam

88. Answer: a

Explanation:

The correct answer is **Article 26**.

★ **Key Points**

- Article 26: Freedom to manage religious affairs.
 - It gives every religious group a right to establish and maintain institutions for religious and charitable purposes, manage its affairs, properties as per the law.
 - This guarantee is available to only Citizens of India and not to aliens.
 - The right to manage its affairs in the matter of religion.
 - The right to acquire immovable and movable property.

★ **Additional Information**

Article 210 of the Indian Constitution: Language to be used in the Legislature

- The Constitution has declared the official language(s) of the state or Hindi or English, to be the languages for transacting business in the state legislature.
- However, the presiding officer can permit a member to address the House in his mother-tongue.
- The state legislature is authorised to decide whether to continue or discontinue English as a floor language after the completion of fifteen years from the commencement of the Constitution (i.e., from 1965).
- In case of Himachal Pradesh, Manipur, Meghalaya and Tripura, this time limit is twenty-five years and that of Arunachal Pradesh, Goa and Mizoram, it is forty

years.

- Hence, we can say that, Article 210 of the Indian Constitution lays down that the business in the Legislature of a State shall be transacted in
 - Hindi
 - English
 - Official language of the State.
- Article 5 of the Indian constitution deals with citizenship at the commencement of the Constitution.
 - A person who had his domicile in India and also fulfilled any one of them three conditions, viz., if he was born in India; or if either of his parents was born in India; or if he has been ordinarily resident in India for five years immediately before the commencement of the Constitution, became a citizen of India.
- Article 370
 - Present in part XXI of the Indian Constitution which comprises Temporary, Transitional, and Special Provisions with rest to various states of India.
 - Forms the basis of the “Special Status” of J&K.
 - Provides for a separate Constitution of J&K.
 - Limits the Union Parliament’s power to make laws for J&K to those subjects mentioned in the Instrument of Accession (defense, foreign affairs, and communications) and others as and when declared by the Presidential Orders with the concurrence of the Government of the State.
 - Specified the mechanism by which the Article shall cease to be operative. That is, on the recommendation of the Constituent Assembly of the State before the President issues such a notification. However, this provision has been amended by the Constitution (Application to Jammu and Kashmir) Order, 2019.

89. Answer: c

Explanation:

The correct answer is Abhinav Bindra.

★ Key Points

- Abhinav Bindra is a distinguished player in shooting games.
- Abhinav Bindra made history in Beijing 2008 Olympics by becoming the first Indian to win an individual gold medal.
- He is the first Indian to have held concurrently the world and Olympic titles for the men's 10-meter air rifle event, having earned those honors at the 2008 Summer Olympics.
- Abhinav Bindra has also won seven medals at the Commonwealth Games and three medals at the Asian Games.



★ Additional Information

- Abhinav Bindra was born in Zirkepura, Punjab.
- Bindra was the youngest participant in the 1998 Commonwealth Games. He was also the youngest Indian participant at the 2000 Summer Olympics in Sydney.
- He received more than 150 medals in his 22-year career.
- He is the recipient of the Padma Bhushan from the Government of India, He also received the Arjun award, and Major Dhyan Chand Khel Ratna award, India's highest sports award.

90. Answer: b

Explanation:

The correct answer is Liver.

★ Key Points

- The liver is the largest gland in the human body.
 - It is made up of specialized cells called hepatocytes.
 - It is situated on the right side of the stomach in the human body.
 - The study of the liver is called hepatology.
 - It is the largest metabolic organ in the human body.
 - It is the organ that stores a large amount of vitamin A.
 - Ammonia and urea are produced in the liver.
 - Hepatitis is a viral disease that affects the liver.
 - The liver is known as the "chemical lab of the human body".
 - The liver is the highest temperature-producing organ.

★ Additional Information

- pancreas
 - The pancreas functions has both endocrine and exocrine functions.
 - The pancreas has exocrine glands that produce enzymes that are useful for digestion.
 - These are released from the acinar cells that act as exocrine cells.
 - Trypsin, Chymotrypsin are the enzymes secreted by the pancreas that is useful to digest proteins.
 - The amylase enzyme is useful for the digestion of carbohydrates.
 - Lipase is used to break down fats.
 - The endocrine cells are the cells of Islet of Langerhans which secrete endocrine hormones like insulin and glucagon.
- **Pineal**
 - It is located in the epithalamus, near the **center of the brain**.
 - The shape of the gland resembles a pine cone from which it derived its name.
 - The **smallest gland** in the human body.
- Hypothalamus
 - The Hypothalamus is a part of Brain that plays a crucial role in many important functions of the Human Body.

- The hypothalamus is located below the thalamus in the brain.
- The hormones from the hypothalamus govern physiological functions such as temperature regulation, thirst, hunger, sleep, mood, and the release of other hormones within the body.
- Hypothalamus regulates the pituitary gland.

91. Answer: a

Explanation:

The correct answer is Parliament.

★ Key Points

- The power of abolition and creation of the State legislative council is vested in the Parliament of India as per Article 169.
- To create or to abolish a state legislative council, the state legislative assembly must pass a resolution, which must be supported by the majority of the strength of the house and the 2/3rd majority of the present and voting (Absolute + Special Majority).
- When a legislative council is created or abolished, the Constitution of India is also changed. However, still, such type of law is not considered a Constitution Amendment Bill under Article 368.
- The resolution to create and abolish a state legislative council is to be asserted by the President also.

★ Additional Information

- The Legislative council is the upper house of a state.
- The legislative council is not present in every state of India.
- As of January 2020, only 6 states in India have the Legislative council. they are-
 - Andhra Pradesh
 - Bihar
 - Karnataka
 - Maharashtra
 - Uttar Pradesh

- Telangana
- It is a permanent body.
- It cannot be dissolved.
- Only one-third of members of a legislative council retired every two years.
- Each member of the legislative council serves for a six years term.

92. Answer: c

Explanation:

The correct answer is Chhath Puja.

★ Key Points

- Chhath Puja:
 - Chhath is a Hindu festival dedicated to the Sun god and his wife Usha in order to thank them for bestowing the bounties of life on earth.
 - The Goddess who is worshipped during the famous Chhath Puja is known as Chhathi Maiya (also known as Usha, wife of the sun god).
 - The word Chhath means sixth and the festival is celebrated on the sixth day of the month Kartika of the Hindu lunar Vikram Samvat calendar.
 - The festival is observed over a period of four days.
 - The rituals include holy bathing, fasting, standing in water for long periods of time, and offering prayers and food to the setting and rising sun.

★ Additional Information

- Bohag Bihu
 - Bohag Bihu is indigenous to **Assam** and is related to the festival of Bihu, it is the main festival of the state.
 - It is a group dance usually performed by young men and women and it involves using rapid hand movements and brisk steps.
- Ugadi
 - Ugadi festival is celebrated as a new year in South India.
 - It is majorly celebrated in the state of Karnataka.

- The festival of Ugadi is celebrated on the first day of Chaitra month according to the Hindu calendar.
- On the other hand, according to the Gregorian calendar, this festival falls in March or April.
- With the arrival of spring, this festival also marks the arrival of a new crop for the farmers.
- On the day of Ugadi, Lord Brahma, the creator of the universe, is worshipped.
- This festival brings us very close to nature and on this day a drink called Pachadi is made which is very healthy.
- On this auspicious day, people in South India also start new work, such as starting a new business, home entry etc.
- Lohri
 - Lohri, the bonfire harvest festival of Punjab celebrated in the month of Magh, is symbolic of new beginnings.
 - The festival is celebrated every year on January 13 with much enthusiasm and zeal.
 - It is primarily the harvest festival of the Punjabis.
 - This festival denotes the harvesting of the Rabi crops and hence all the farmers get together in order to thank god for giving them such a wonderful harvest.
 - The rituals related to Lohri symbolize the attachment of the people with Mother Nature.

93. Answer: b

Explanation:

The correct answer is 1999.

★ Key Points

- **Swarnajayanthi Gram Swarozgar Yojana**
 - It was launched by the Ministry of Rural Development, Government of India.

- SGSY is a holistic Scheme covering all aspects of self-employment such as the organization of the poor into Self Help Groups, training, credit, technology, infrastructure, and marketing.
- The scheme is funded by the financial institutions, Panchayat Raj Institutions, District Rural Development Agencies (DRDAs).
- The scheme aims at establishing a large number of micro-enterprises in rural areas.
- The objective of SGSY is to bring assisted family above the poverty line by providing them income-generating assets through a mix of bank credit and Government subsidy.
- Swarnjayanti Gram Swarozgar Yojana" was made by restructuring the existing schemes namely:
 - Integrated Rural Development Programme (IRDP).
 - Training of Rural Youth for Self Employment (TRYSEM).
 - Development of Women & Children in Rural Areas (DWCRA).
 - Supply of Improved Toolkits to Rural Artisans (SITRA).
 - Ganga Kalyan Yojana (GKY).
 - Million Wells Scheme (MWS).

94. Answer: c

Explanation:

The correct answer is gamma.

★ Key Points

- Cobalt-60 decays into a stable Nickel-60 isotope, two wavelengths of high-energy gamma-rays are emitted (1.17 and 1.33 MeV- an average of 1.25 MeV used).
- Cobalt-60 (^{60}Co) has been used for radiotherapy cancer treatment, food irradiation, and industrial applications.
- Gamma rays are electromagnetic radiations of low wavelength, high frequency, and high energy.

- Gamma rays penetrating power is very great and can pass through several centimetres of lead.

★ Additional Information

- The phenomenon of self disintegration by emitting certain invisible rays by the naturally occurring substances, elements and its compounds is called radioactivity.
- The phenomenon of radioactivity was discovered by A.H Becquerel in 1886.
- The three types of radioactive emissions are:
 - Alpha particle: A positively charged helium atom. It has a very less penetrating power.
 - Beta particle: A negatively charged light particle. It has the penetrating power greater than the alpha particle.
 - Gamma particle: A gamma-ray, or gamma radiation, is a penetrating form of electromagnetic radiation arising from the radioactive decay of atomic nuclei.
- X-rays are a form of electromagnetic radiation that is used for medical imaging, treating cancer and even used for exploring the cosmos.

95. Answer: d

Explanation:

The correct answer is Sarod.

★ Key Points

- Ustad Amjad Ali Khan Bangash was born on 9 October 1945.
- He is an Indian classical sarod player, best known for his clear and fast akhara taans.
- He was born into a classical musical family and has performed internationally since the 1960s.
- He was awarded India's second-highest civilian award Padma Vibhushan in 2001.
- He first performed in the United States in 1963

- He was awarded 21st Rajiv Gandhi National Sadbhavna Award. He received Padma Shri in 1975, Padma Bhushan in 1991, and Padma Vibhushan in 2001.

★ Additional Information

<ul style="list-style-type: none"> • Pandit Shivkumar Sharma • Rahul Sharma • Tarun Bhattacharya • Abhay Sopori. 	Santoor Player
<ul style="list-style-type: none"> • Ustad Zakir Hussain • Alla Rakha • Ustad Tafu Khan. 	Tabla Player
<ul style="list-style-type: none"> • Amjad Ali Khan Bangash • Ali Akbar Khan • Allauddin Khan. 	Sarod Player
<ul style="list-style-type: none"> • Hariprasad Chaurasia • Paras Nath. 	Flute Player
<ul style="list-style-type: none"> • Asad Ali Khan • Zia Mohiuddin Dagar • Ayyagari Syamasundaram 	Veena Player
<ul style="list-style-type: none"> • Pt Ravi Shankar • Shahid Parvez Khan • Budhaditya Mukherjee • Anushka Shankar. 	Sitar

96. Answer: c

Explanation:

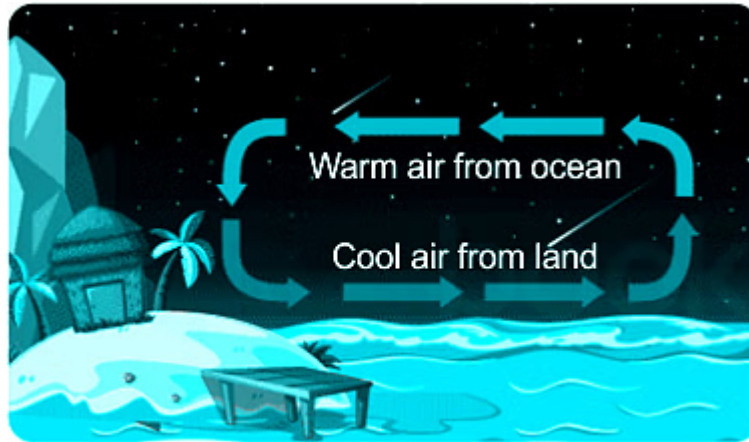
The correct answer is water cools slower than land.

★ Key Points

- A sea breeze is any wind that blows from a large body of water toward or onto a landmasses
- Sea breezes occur during hot, summer days because of the unequal heating rates of land and water.
- During the day, the land surface heats up faster than the water surface hence creating a high temperature and low-pressure zone on land.
- The wind blows from the higher pressure over the water to the lower pressure over the land causing the sea breeze
- At night, the air over the ocean is now warmer than the air over the land. The land loses heat quickly after the sun goes down and the air above it cools too

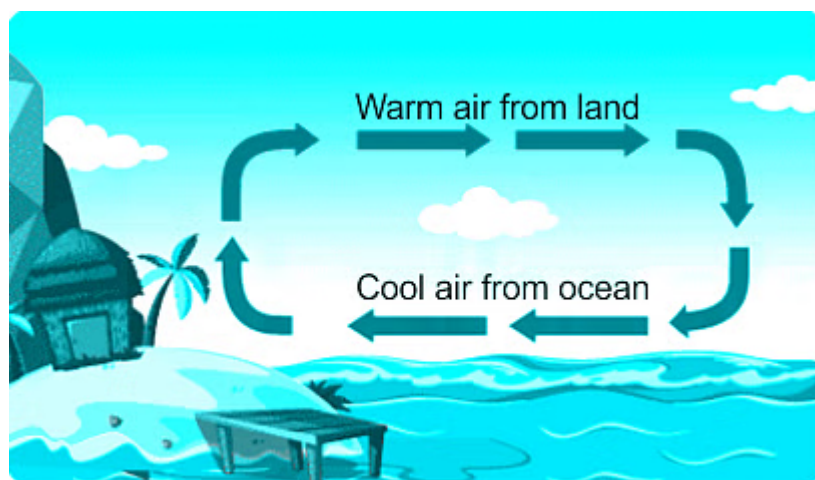
★ Additional Information

- Land Breeze:
 - This process takes place for the duration of the night.
 - Both, the land and the sea start cooling down when the sunsets.
 - As the heat capacity of the land is different from the sea it cools down quicker.
 - Thus, a low-pressure develops over the sea as the temperature above it is higher when compared to the land.
 - Due to this, the air flows from the land to the sea which is termed the land breeze.
 - Land breeze can occur at any time of year but are more prevalent during the fall and winter seasons when water temperatures are still fairly warm and nights are cool.



Land Breeze

- Sea Breeze:
 - This process takes place for the duration of the day.
 - Both the sea and the land surface is heated up by the sun.
 - The sea heats up slower than the land because it has a much higher heat capacity.
 - Thus, the temperature over the land surface increases, in turn, heating up the surrounding air.
 - Expansion occurs in the less dense warm air and an area over the land having low pressure is developed.
 - At the same time on the top of the sea, a high-pressure area develops.
 - Due to the difference in pressure and the air flows from the high pressure over the sea to the low pressure over the land.
 - This flow of air from the sea to the land is termed the sea breeze.



Sea Breeze

97. Answer: b

Explanation:

The correct answer is Kerala.

★ Key Points

- Kathakali is a classical Indian dance form which is a story play genre of art is the folk dance form of Kerala.
- It is a combination of 5 forms of fine art which are –
 - Natyam (expressions)
 - Nritham (dance)
 - Nrithyam (enactment)
 - Sangeetam (music)
 - Vadya (instruments)
- Various costumes of characters of Kathakali –
 - Sathwika (Hero)
 - Katti (Villain)
 - Minukku (females)
 - Thati (other characters)
- Types of Drums used in Kathakali – Maddalam, Chenda, and Idakka
- Kathakali is the most difficult style of the traditional dance form in which actors speak 'sign language' where twenty-four hand gestures are used to dictate the word part of the character and facial and eye movements express emotions and mood.
- Kathakali is based on the epics of Ramayana and Mahabharata.



98. Answer: d

Explanation:

The correct answer is Uttar Pradesh.

★ Key Points

- Uttar Pradesh, Punjab, and Tamil Nadu are the major producers of sugarcane.
- Uttar Pradesh is the leading producer of sugarcane in India with around 39% of India's total sugarcane production.
- Tamil Nadu is the 4th leading producer of sugarcane and Punjab is the 8th leading producer.
- The sugarcane production in the year 2019-20 in UP was 120 lakh tonnes, a slight increase even though the area decreased by 2% as compared to the previous year, because of the high-yielding varieties.
- The sugarcane production in the year 2019-20 in Tamil Nadu was 7.5 lakh tonnes as against 8.60 lakh tonnes in the previous year.

★ Important Points

- Approximately 80% of the world's sugar is produced from sugarcane in tropical and subtropical climates with the remaining 20% derived from sugar beet.
- In the 2018-2019 crop year, sugar production was 179 million metric tons (MT).
- India (33 MT) became the world's largest sugar producer in 2018/2019.
- It overtook Brazil (29.5 MT) for the first time in 16 years.

- Brazil, Thailand, Australia, India are the leading exporters of sugar.
- Uttar Pradesh is the leading sugarcane producing State.
- Sugar production in the U.P. in 2018–19 is estimated to be around 13.5 MT.

99. Answer: a

Explanation:

The correct answer is Ribosome.

★ Key Points

- Living organisms are made up of several cells.
- Cells are the basic functional unit of a body that is capable of independent reproduction.
- A cell can be either a prokaryotic cell or a eukaryotic cell.
- Prokaryotic cell lacks well-defined nuclear membrane-bound nucleus and organelles.
 - A bacterial cell is a prokaryotic cell.
- A eukaryotic cell has a well-defined nucleus and membrane-bound cell organelles.
 - Humans have eukaryotic cells.
- ***Thus Ribosome is found both in eukaryotic and prokaryotic cells.***
- Cell organelles are sub-cellular structures that have characteristic morphological forms and specific functions.
- **Mitochondria, ribosomes, plastids, ER, Golgi body, etc.** are some examples of cell organelles.

★ Additional Information

- Golgi body:
 - It is known as a Golgi apparatus, a cell organelle that helps process and package proteins and lipid molecules, especially proteins destined to be exported from the cell.
 - Named after its discoverer, Camillo Golgi, the Golgi body appears as a series of stacked membranes.

- The Golgi is located right near the nucleus.
- The Golgi body is a portion of the cell that's made up of membranes.
- Mitochondria :
 - Mitochondria play an essential role in creating energy to drive cellular function and basically all of our biological processes.
 - It is called **the Power House of the Cell**.
 - Chemical energy produced by the **mitochondria is stored in a small molecule called adenosine triphosphate (ATP)**.
- Lysosomes :
 - Lysosomes function as the digestive system of the cell.
 - A lysosome has three main functions: the **breakdown/digestion** of macromolecules (**carbohydrates, lipids, proteins, and nucleic acids**).
 - Cell membrane repairs, and **responses against foreign substances such as bacteria, viruses and other antigens**.

100. Answer: c

Explanation:

The correct answer is Akbar.

★ Key Points

- The Battle of Haldighati was a battle fought on 18 June 1576.
- It was fought between the Rana of Mewar, Maharana Pratap, and the Mughal emperor Akbar.
- The Mughal force was led by Man Singh I of the Amber.
- Abul Fazl says that the Mughal army was forced to retreat in the initial phase of the battle.
- Haldighati is a region in the Aravalli mountain range, which links Rajsamand and Pali districts in Rajasthan, the name for which is inspired by its yellow-turmeric-coloured soil.
- The two armies fought a four-hour-long war in which the Mughals suffered heavy casualties and Maharana escaped unhurt.

★ Additional Information

- Akbar (1556 to 1605)
 - Akbar was the third Mughal emperor (1556 to 1605) and the son of Humayun.
 - Akbar succeeds in the throne at just 13 years old due to the death of Humayun.
 - The kingdom Akbar inherited was little more than a collection of frail fiefs, under the regency of Bairam Khan.
 - Akbar introduced the Mansabdari system.
 - The Navratnas of Akbar were as follows: Raja Birbal, Tansen, Abul Fazal, Faizi, Raja Man Singh, Raja Todar Mal, Mullah Do Piazza, Fakir Aziao-Din, Abdul Rahim Khan-I-Khana.
 - Abul Fazl started the writing of Akbarnama in 1589.
 - It is the most detailed history of the reign of Akbar.

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