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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



UPTET



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: 13 Oct 2021 Shift 2)

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 English	25	25	0.25	1
2	General Intelligence & Reasoning	25	25	0.25	1
3	Numerical Aptitude	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 English

1. Select the most appropriate one-word substitution for the given group of words. (+1, -0.25)

A person who makes maps

- a. Cartographer
- b. Stenographer
- c. Calligrapher
- d. Biographer

-
2. Select the INCORRECTLY spelt word. (+1, -0.25)

- a. Receipt
- b. Greatful
- c. Column
- d. Accident

-
3. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. (+1, -0.25)

I earn / little money / than my / younger brother./

- a. little money
- b. than my
- c. I earn

d. younger brother

4. Select the most appropriate ANTONYM of the given word.

(+1, -0.25)

FORMER

- a. latter
 - b. further
 - c. earlier
 - d. anterior
-

5. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

(+1, -0.25)

The students / have been / doing yoga / since an hour

- a. The students
 - b. since an hour
 - c. doing yoga
 - d. have been
-

6. Select the most appropriate synonym of the given word.

(+1, -0.25)

COMPREHEND

- a. understand
- b. attack

- c. permit
 - d. confess
-

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

Hit the ceiling

- a. Explode in anger
 - b. Reach the top
 - c. Make good progress
 - d. Have high hopes
-

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

If we _____ any further, we will lose the contract.

- a. back
 - b. delay
 - c. late
 - d. slow
-

9. Select the most appropriate one-word substitution for the given group of words. (+1, -0.25)

An imaginary ideal society where people live in perfect conditions

- a. Idyll

- b. Myopia
 - c. Countryside
 - d. Utopia
-

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

Months on end

- a. In a month's time
 - b. End of the month
 - c. Last month of the year
 - d. Several months in a row
-

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

_____ I saw the smoke, I realised there was a fire in the woods.

- a. Scarcely
 - b. Although
 - c. As soon as
 - d. Unless
-

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

YIELD

- a. retain

- b. deny
 - c. submit
 - d. assert
-

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

She received _____ for her beautiful handwriting.

- a. counsel
 - b. confirmation
 - c. compliments
 - d. complements
-

14. Identify the segment in the sentence which contains a grammatical error. (+1, -0.25)

The guide gave us completed information about the historical castle.

- a. completed information
 - b. about the
 - c. historical castle
 - d. The guide gave us
-

15. Select the INCORRECTLY spelt word. (+1, -0.25)

- a. Possession
- b. Interupt

- c. Guarantee
 - d. Threshold
-

16. Select the most appropriate option to substitute the underlined segment (+1, -0.25)
in the given sentence. If there is no need substitute it, select 'No
substitution required'.

The boys have gone for a morning walk, are they?

- a. haven't they
 - b. have they
 - c. No substitution required
 - d. aren't they
-

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

Yesterday, Mohini _____ her brother to lend her a pen.

- a. requests
 - b. request
 - c. has requested
 - d. requested
-

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

CROOKED

- a. straight

- b. curved
 - c. hooked
 - d. bent
-

19. Select the most appropriate option to substitute the underlined segment (+1, -0.25) in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Don't park your car here, the police should tow it away.

- a. ought to
 - b. need to
 - c. might
 - d. No substitution required
-

20. Select the most appropriate option to substitute the underlined segment (+1, -0.25) in the given sentence. If there is no need to substitute it, select 'No substitution required.'

The government has ordered that all illegal structures around heritage buildings must be brought down.

- a. No substitution required
 - b. without
 - c. into
 - d. towards
-

21. In the following passage some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

It is a common sight to find roads littered with scraps of paper, empty cans, cigarette stubs... the list is unending. It is sad that we (1)_____ pass by with a look of disgust (2)_____ do nothing to clean up the (3)_____. Littering pollutes the environment and can be (4)_____ for animals. It contaminates the soil and water and (5)_____ diseases.

Select the most appropriate option to fill in blank no. 1.

- a. exactly
- b. simply
- c. nearly
- d. fairly

-
22. In the following passage some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

It is a common sight to find roads littered with scraps of paper, empty cans, cigarette stubs... the list is unending. It is sad that we (1)_____ pass by with a look of disgust (2)_____ do nothing to clean up the (3)_____. Littering pollutes the environment and can be (4)_____ for animals. It contaminates the soil and water and (5)_____ diseases.

Select the most appropriate option to fill in blank no. 2.

- a. so
- b. but

c. only

d. than

-
23. In the following passage some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

It is a common sight to find roads littered with scraps of paper, empty cans, cigarette stubs... the list is unending. It is sad that we (1)_____ pass by with a look of disgust (2)_____ do nothing to clean up the (3)_____. Littering pollutes the environment and can be (4)_____ for animals. It contaminates the soil and water and (5)_____ diseases.

Select the most appropriate option to fill in blank no. 3.

a. chaos

b. pattern

c. wreck

d. mess

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-
24. In the following passage some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank. (+1, -0.25)

It is a common sight to find roads littered with scraps of paper, empty cans, cigarette stubs... the list is unending. It is sad that we (1)_____ pass by with a look of disgust (2)_____ do nothing to clean up the (3)_____. Littering pollutes the environment and can be (4)_____ for animals. It contaminates the soil and water and (5)_____ diseases.

Select the most appropriate option to fill in blank no. 4.

- a. final
- b. vital
- c. fatal
- d. trivial

25. In the following passage some words have been deleted. Fill in the blanks (+1, -0.25) with the help of the options given. Select the most appropriate option for each blank.

It is a common sight to find roads littered with scraps of paper, empty cans, cigarette stubs... the list is unending. It is sad that we (1) _____ pass by with a look of disgust (2) _____ do nothing to clean up the (3) _____. Littering pollutes the environment and can be (4) _____ for animals. It contaminates the soil and water and (5) _____ diseases.

Select the most appropriate option to fill in blank no. 5.

- a. have caused
- b. causes
- c. have been causing
- d. cause

General Intelligence & Reasoning

26. Which of the following numbers will replace the question mark (?) in the given series? (+1, -0.25)

140, 141, 133, 160, 96, ?

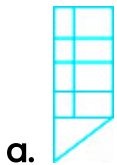
- a. 337
- b. 311
- c. 221
- d. 276

27. Select the option figure that is NOT embedded in the given figure (X) as its part (rotation is NOT allowed). (+1, -0.25)



(X)

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28. Two statements are given followed by two conclusions numbered I and II. (+1, -0.25)
Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some clothes are curtains.

All curtains are fibres.

Conclusions:

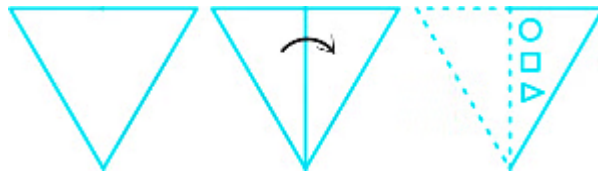
- I. Some fibers are clothes.
- II. No fibre is a cloth.
- a. Either conclusion I or II follows
- b. Both conclusions I and II follow
- c. Only conclusion I follows
- d. Only conclusion II follows

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29. In a certain code language, 'PRUNE' is written as '74'. How will 'LONDON' be written in that language? (+1, -0.25)
- a. 60
 - b. 112
 - c. 121
 - d. 74

30. A paper is folded and cut as shown below. How will it appear when unfolded?

(+1, -0.25)



31. Which of the following latter-clusters will replace the question mark (?) in the given series?

(+1, -0.25)

ZML, WKK, TIJ, QGI, ?

- a. MEH
- b. ODH
- c. NDG

d. NEH

32. In a certain code language, 'FORT' is written as '6301820' and 'PRICE' is written as '161818310'. How will 'FUTILE' be written in that language? (+1, -0.25)

- a. 64220091205
 - b. 62220181310
 - c. 64220181210
 - d. 62120091210
-

33. In a certain code language, 'CAMPHOR' is written as 'HZLOGNW' and 'FASTEN' is written as 'KZRSDS'. How will 'NATIONAL' be written in that language? (+1, -0.25)

- a. SZSINOZK
 - b. TZUHNMZQ
 - c. MZSHNMZK
 - d. SZSHNMZQ
-

34. Select the set of classes the relationship among which is best illustrated by the following Venn diagram. (+1, -0.25)



- a. Spices, Cumin, Spinach

- b. Animals, Plants, Cucumbers
 - c. Engineers, Doctors, Pharmacists
 - d. Wheat, Maize, Cereals
-

35. In a certain code language, 'BROWN' is written as 'ORBNW'. How will 'LUCKY' be written in that language? (+1, -0.25)

- a. CKUYL
 - b. CULYK
 - c. UKLCY
 - d. CLUYK
-

36. Which two signs should be interchanged to make the given equation correct? (+1, -0.25)

$$8 \times 9 \div 15 + 30 - 5 = 63$$

- a. and \times
 - b. + and -
 - c. + and \times
 - d. \div and -
-

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

$$8 : 108 :: 12 : ?$$

- a. 208
- b. 225
- c. 135
- d. 150

38. Which two numbers should be interchanged to make the given equation correct? (+1, -0.25)

$$14 \times 7 - 25 \div 5 + 95 = 104$$

- a. 14 and 95
- b. 25 and 7
- c. 7 and 5
- d. 25 and 95

39. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. (+1, -0.25)

Statements:

All jewels are metals

No metal is a diamond.

Conclusions:

- I. No jewel is a diamond.
- II. No diamond is a metal.

III. Some metals are jewels.

- a. Only conclusions I and II follow
- b. Only conclusions I and III follow
- c. Only conclusions II and III follow
- d. All of the conclusions follow

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

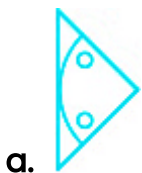
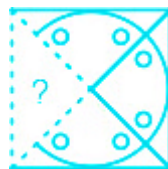
20, 44, 92, 188, 380, ?

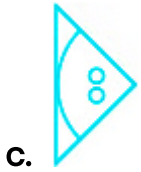
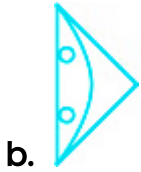
- a. 884
- b. 760
- c. 880
- d. 764



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41. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. (+1, -0.25)





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

Gymnasium : Exercise :: School : ?

- a. Teachers
- b. Education
- c. Students
- d. Curriculum

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

11	9	11
7	8	?
324	289	441

- a. 10
- b. 11
- c. 12
- d. 9

44. 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.

FLKU : VLMG :: DPJMR : ?

- a. TNKOE
- b. SOKRE
- c. XQKNT
- d. SNKQE

45. If $B = D$, $C = U$, $B > G$, $U > R$ and $C > S$, then which of the following (+1, -0.25) expressions is NOT correct?

- a. $S < C$
- b. $S < U$
- c. $C < R$
- d. $G < D$

46. Select the correct mirror image of the given combination when the mirror (+1, -0.25) is placed at MN as shown below.

c. U

d. W

49. In a line, five friends P, Q, R, S and T are sitting, all facing East. P is sitting at the second place to the left of T. R is third to the left of S and also to the immediate right of P. Which two persons are sitting at the corners? (+1, -0.25)

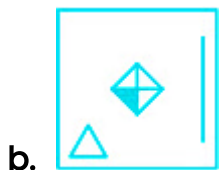
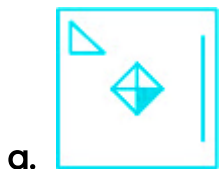
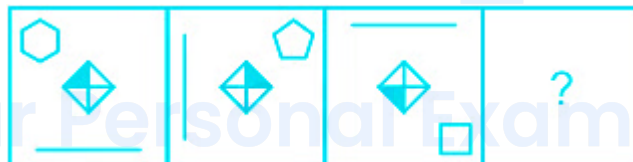
a. Q and R

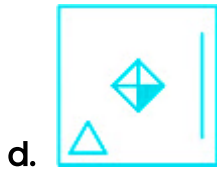
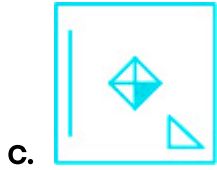
b. Q and T

c. P and Q

d. P and S

50. Select the option that will replace the question mark (?) in the following figure series. (+1, -0.25)





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Numerical Aptitude

51. If the mean of the following data is 9, then find the value of k. (+1, -0.25)

11, $(k - 2)$, 7, $(k - 1)$, 11, 16, 12, 15, $(k - 1)$, 13

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

52. A shopkeeper marks every item available in his shop at 20% higher than the actual cost price. He offers a discount of 10% on every item. If an item is sold for ₹5,400, find his profit percentage. (+1, -0.25)

- a. 4%
- b. 8%
- c. 6.6%
- d. 15%

53. Sudhir took a loan of ₹15,000 on simple interest for as many years as the rate of interest. If he paid ₹7,350 as interest at the end of the loan period, then what was the rate of interest per annum? (+1, -0.25)

- a. 49%
- b. 7%
- c. 10%

d. 15%

54. Three numbers are in the ratio $\frac{4}{9} : \frac{2}{3} : \frac{3}{4}$. The difference between the greatest and the smallest numbers is 33. Find the greatest number. (+1, -0.25)

a. 66

b. 72

c. 48

d. 81

55. The average time taken by 7 athletes in a race is 2 minutes 10 seconds. If the winner completed the race in 1 minute 40 seconds, then the average time taken by the other athletes is: (+1, -0.25)

a. 2 minutes 35 seconds

b. 2 minutes 45 seconds

c. 2 minutes 15 seconds

d. 2 minutes 25 seconds

56. The simplified value of $6 - \left[\left\{ \left(\frac{20}{24} \div \frac{1}{2} \right) + \frac{48}{56} - \frac{6}{7} \right\} \text{ of } \frac{6}{10} - 7 \right]$ is: (+1, -0.25)

a. 12

b. 13

c. 0

d. 9

57. A shopkeeper sold some bedsheets of one variety for Rs. 12,000 for 20% profit, and some bedsheets of another variety for Rs. 10,350 for 15% profit. what was his overall profit on the sale of these bedsheets? (+1, -0.25)

- a. Rs. 3,750
- b. Rs. 3,350
- c. Rs. 3,552.50
- d. Rs. 3,952.50

58. A pool has 3 taps. The first tap takes 3 days, the second tap takes 2 days, and the third tap takes 18 hours, to fill the pool. All the three taps are opened together. After 8 hours, the second tap is closed. The total time to fill the pool completely will be: (+1, -0.25)

- a. $\frac{128}{11}$ hours
- b. 12 hours
- c. $\frac{144}{13}$ hours
- d. 4 hours

59. A man cycling at a uniform speed of 10 km/h crosses a bridge in 90 seconds. The length of the bridge is: (+1, -0.25)

- a. 150 m
- b. 25 m
- c. 250 m

d. 15 m

60. Kamal and her sister together have Rs. 2,100. On taking Rs. 300 from her sister, Kamal will have the same amount as what her sister had earlier. Find the ratio of the initial amounts that Kamal and her sister had. (+1, -0.25)

a. 3 : 4

b. 1 : 1

c. 4 : 3

d. 5 : 9

61. The value of $3\frac{1}{9} \div \frac{4}{9}$ of $(7\frac{3}{10} + 3\frac{1}{5}) + \frac{4}{5} \div 2\frac{2}{5}$ is: (+1, -0.25)

a. 5

b. 1

c. 2

d. 10

62. Kamala has three cylindrical containers, each with radius 20 cm that she wants to fill with grain. If her bag of grain contains 100 kg of grain, and she fills all three containers to a height of 70 cm, how much grain will be left in the bag, if 1 kg grain occupies 3000 cm^3 space? (Use $\pi = \frac{22}{7}$) (+1, -0.25)

a. 88 kg

b. 50 kg

c. 58 kg

d. 12 kg

63. A transporter drives his truck for the first 4 hours of his journey at a speed of 90 km/h, and the remaining distance in 6 hours at a speed of 50 km/h. What is the average speed of the truck (in km/h)? **(+1, -0.25)**

a. 64

b. 70

c. 60

d. 66

64. Two girls move in opposite directions, one from A to B and the other from B to A. The girl from A reaches the destination in 12 minutes. The girl from B stops on the way for 10 minutes and reaches her destination in 25 minutes. If A's speed is 5 km/h, then what is the speed of B? **(+1, -0.25)**

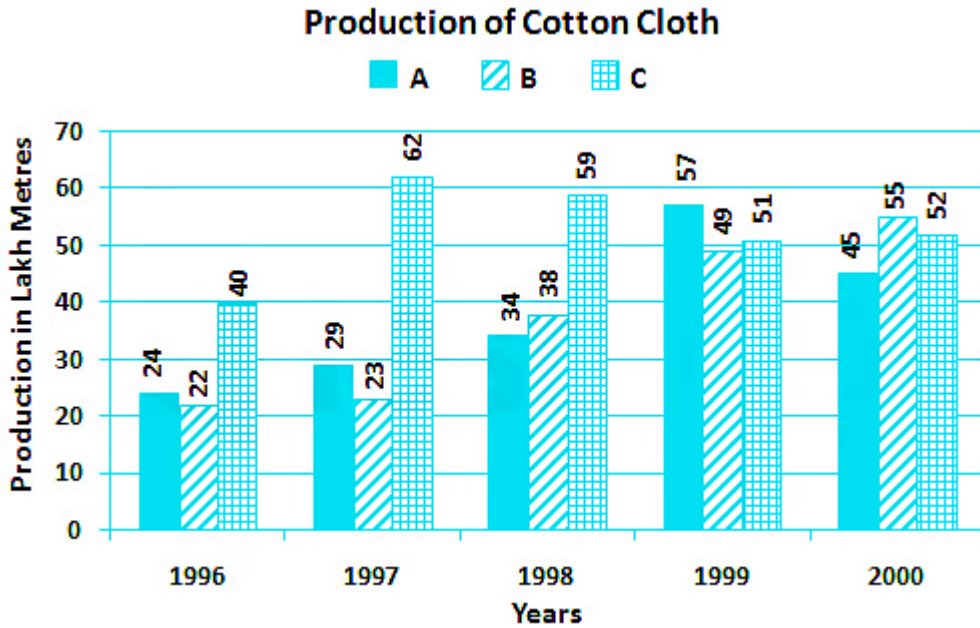
a. 3 km/h

b. $1\frac{5}{7}$ km/h

c. 4 km/h

d. 2.4 km/h

65. The following graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over the years. **(+1, -0.25)**



What is the ratio of the production of Company C in the years 1996 and 1997 to the production of Company B in the years 1999 and 2000?

- a. 3 : 11
- b. 51 : 52
- c. 11 : 3
- d. 52 : 51

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66. A person invests Rs. 10,000 at the rate of 10% per annum for 2 years on simple interest. How much more interest will be earned if he is paid compound interest instead of simple interest, interest being compounded annually? (+1, -0.25)
- a. Rs. 100
 - b. Rs. 4,100
 - c. Rs. 2,100

d. R. 1

67. A square park has area 4356 m^2 . Taking its one round is same as taking one round of another circular park. Find the area of the circular park. (Use $\pi = \frac{22}{7}$) (+1, -0.25)

a. 11088 m^2

b. 5544 m^2

c. 22176 m^2

d. 1386 m^2

68. Kulbhushan started a juice (syrup + water) counter. Initially, he had 140 litres of juice which had 40% water in it. He sold 30 litres of the juice. Then he added equal amounts of syrup and water. Now the ratio of water to syrup became 3 : 4. What quantity of water was added? (+1, -0.25)

a. 24 litres

b. 28 litres

c. 26 litres

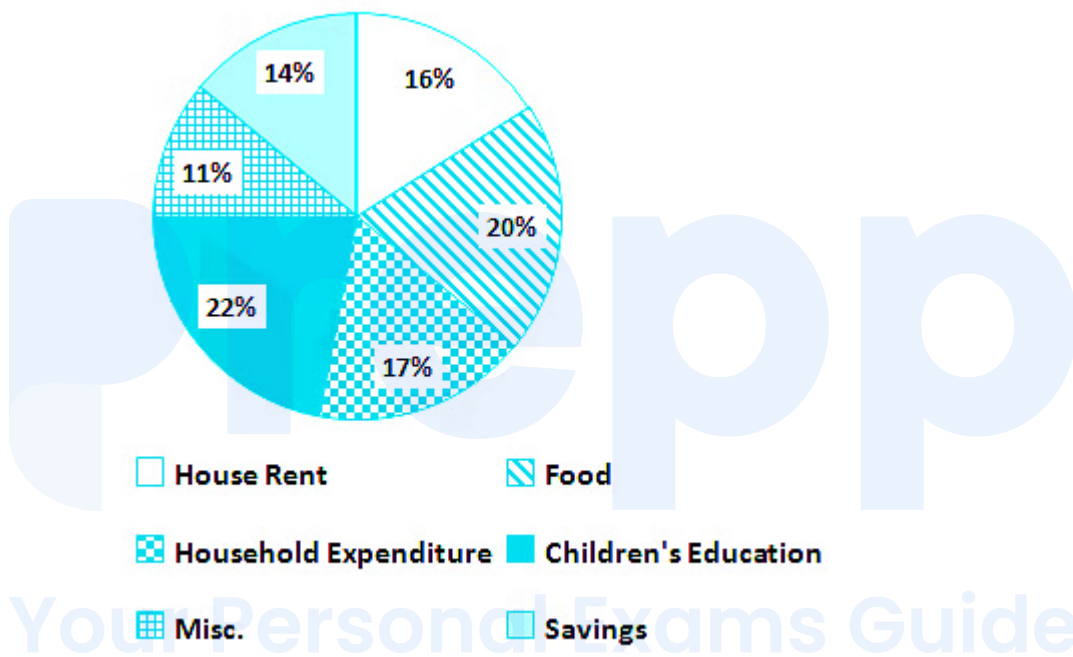
d. 22 litres

69. The radius of a spherical balloon increase from 6 cm to 10 cm when more air is pumped into it. The ratio in the surface area of the original balloon and the inflated balloon is: (+1, -0.25)

a. 4 : 5

- b. 27 : 125
- c. 3 : 5
- d. 9 : 25

70. The Gupta family spends their monthly income on different heads as shown in the following pie chart. (+1, -0.25)



What is the central angle of the combined section for House Rent and Savings?

- a. 30°
- b. 100°
- c. 90°
- d. 108°

71. In a school, some students from section A were shifted to section B of Class X, and thereby, the number of students in section B increased by 12%. But at a later stage, all of them were shifted back to section A. By that percentage (correct up to two decimal places) did the number of students of section B decrease? (+1, -0.25)

- a. 12%
- b. 10.71%
- c. 11%
- d. 0%

72. For a 14-day camp, sufficient supplies are available for 300 people. 50 more people arrive on day 1 itself. For how many days will these supplies be sufficient for all these people? (+1, -0.25)

- a. 12
- b. 11
- c. 10
- d. 13

73. Two dealers offer an item at the same marked price, Rs. 2,000. Due to the festive season, the first dealer allows successive discounts of 25% and 15%, and the other dealer allows successive discounts of 10% and 30%. At what price is the item available in the better offer? (+1, -0.25)

- a. Rs. 1,255
- b. Rs. 1,275

c. Rs. 1,250

d. Rs. 1,260

74. The sum of two numbers is 140. If their LCM is 240 and HCF is 20, then find the smaller number. (+1, -0.25)

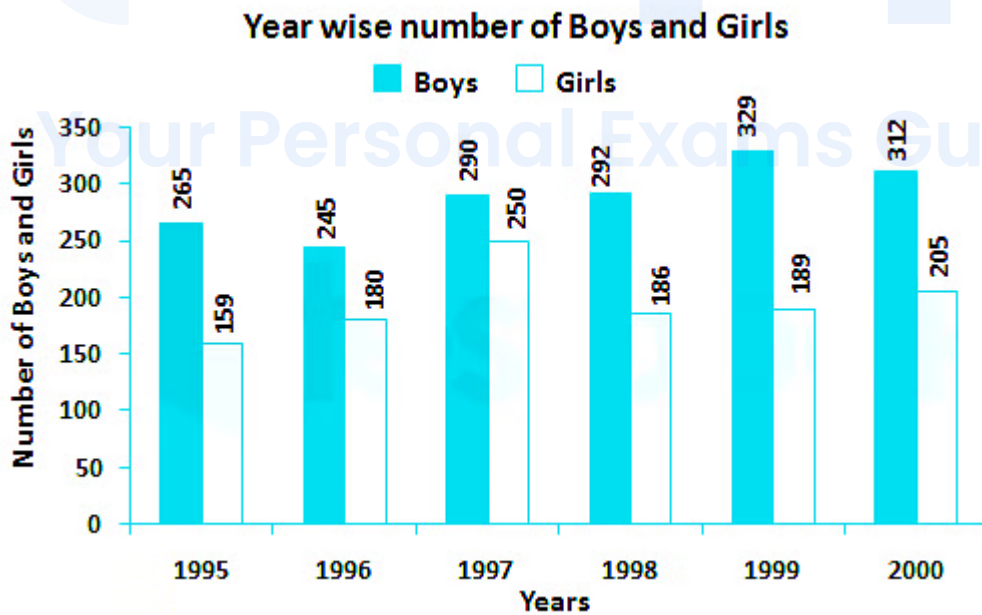
a. 60

b. 140

c. 20

d. 80

75. The record of the enrollment of boys and girls in a school over 6 years has been presented in the following bar graph. (+1, -0.25)



In which year was the total enrollment the minimum?

- a. 1995
- b. 2000
- c. 1996
- d. 1998

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General Awareness

76. The capital of the British Indian Empire was transferred from Calcutta to Delhi in: (+1, -0.25)
- a. 1911
 - b. 1905
 - c. 1907
 - d. 1909
-
77. Meenakshi Srinivasan is an exponent of which of the following dance forms? (+1, -0.25)
- a. Kathakali
 - b. Kathak
 - c. Kuchipudi
 - d. Bharatnatyam
-
78. Which of the following teams won the 2019 Indian Premier League (IPL) cricket tournament? (+1, -0.25)
- a. Royal Challengers Bangalore
 - b. Mumbai Indians
 - c. Chennai Super Kings
 - d. Kolkata Knight Riders

79. Which of the following processes converts liquid directly into its vapour form? (+1, -0.25)
- a. Condensation
 - b. Vaporisation
 - c. Sublimation
 - d. Evaporation
-

80. Who among the following was the first Finance Minister of independent India? (+1, -0.25)
- a. RK Shanmukham Chetty
 - b. TT Krishnamachari
 - c. Syama Prasad Mukherjee
 - d. Jagjivan Ram
-

81. Who among the following was appointed as the Chief Information Commissioner (CIC) in March 2020? (+1, -0.25)
- a. Ajay Bhusan Pandey
 - b. Satish Kumar Sharma
 - c. Amita Pandove
 - d. Bimal Julka
-

82. LAC (Line of Actual Control) is the effective border between India and: **(+1, -0.25)**
- a. Myanmar
 - b. China
 - c. Afghanistan
 - d. Bangladesh
-

83. Under the Prime Minister Mudra Yojna, loans for income generating activities up to _____ are termed as Shishu loans. **(+1, -0.25)**
- a. Rs. 50,000
 - b. Rs. 75,000
 - c. Rs. 60,000
 - d. Rs. 40,000
-

84. Which of the following states has the highest number of Legislative Assembly (Vidhan Sabha) Constituencies? **(+1, -0.25)**
- a. Rajasthan
 - b. Maharashtra
 - c. Uttar Pradesh
 - d. Madhya Pradesh
-

85. In which year was the Securities Appellate Tribunal (SAT) established in India? (+1, -0.25)
- a. 1990
 - b. 1992
 - c. 1994
 - d. 1997
-

86. Who among the following won the Sahitya Akademi Award 2019 in the English non-fiction category? (+1, -0.25)
- a. Roshani Chokshi
 - b. Shashi Tharoor
 - c. Raghu Karnad
 - d. Amitabha Bagchi
-

87. What was the literacy rate of India as per the Census of 2011? (+1, -0.25)
- a. 61.0%
 - b. 81.5%
 - c. 72.0%
 - d. 74.0%
-

88. Which of the following is an example of an infectious disease? (+1, -0.25)
-

- a. Tuberculosis
 - b. Dementia
 - c. Pulmonary hypertension
 - d. Diabetes
-

89. Which of the following statements is correct? (+1, -0.25)

- a. Twelve members of the Rajya Sabha are nominated by the Chairman of the Rajya Sabha.
 - b. Twelve members of the Rajya Sabha are nominated by the President.
 - c. Fifteen members of the Rajya Sabha are nominated by the prime Minister.
 - d. Fifteen members of the Rajya Sabha are nominated by the President.
-

90. Which of the following types of mirrors show lateral inversion of light? (+1, -0.25)

- a. Convex mirror
 - b. Concave mirror
 - c. Rectangle mirror
 - d. Plane mirror
-

91. In which of the following parts of the human body is the masseter muscle located? (+1, -0.25)

- a. Hand
 - b. Thigh
 - c. Jaw
 - d. Chest
-

92. Who among the following founded the organisation 'East India Association'? (+1, -0.25)

- a. Womesh Chandra Bonnerjee
 - b. Gopal Krishna Gokhale
 - c. George Yule
 - d. Dadabhai Naoroji
-

93. SC Jamir, one of the recipients of the Padma Bhushan 2020 award, received the award for his contribution in: (+1, -0.25)

- a. Public Affairs
 - b. Trade and Industry
 - c. Art
 - d. Literature and Education
-

94. Which among the following is NOT one of the four locations of the 'Kumbh Mela'? (+1, -0.25)

- a. Ujjain

- b. Haridwar
 - c. Prayagraj
 - d. Varanasi
-

95. Who won Tour de France in 2020? (+1, -0.25)

- a. Sepp Kuss
 - b. Rudy Molard
 - c. Romain Sicard
 - d. Tadej Pogacar
-

96. Where did Lord Mahavira attain salvation? (+1, -0.25)

- a. Sonagiri
 - b. Pavapuri
 - c. Shravanabelagola
 - d. Mount Abu
-

97. The index titled SENSEX of BSE (erstwhile Bombay Stock Exchange) is an index of trading of top _____ companies in terms of their volume of trade share prices. (+1, -0.25)

- a. ten
- b. thirty

- c. hundred
 - d. fifty
-

98. The First Buddhist Council is said to have been patronised by: (+1, -0.25)

- a. Porus
 - b. Ashoka
 - c. Ajatashatru
 - d. Chandragupta Maurya
-

99. The Deccan Plateau is a triangular shaped plateau and is bounded by the _____ range in the North. (+1, -0.25)

- a. Western Ghats
 - b. Vindhya
 - c. Arravalis
 - d. Satpura
-

100. Which of the following causative agents causes the disease 'kala-azar'? (+1, -0.25)

- a. Bacteria
- b. Fungus
- c. Protozoa
- d. Virus

Answers

1. Answer: a

Explanation:

The correct answer is 'Cartographer'.

★ Key Points

- Let us look at the meaning of the given words:
 - **Cartographer:** means topographer or mapmaker.
 - Example: He is not only the Head of the Department of Geography for the most prestigious college but also an eminent Cartographer.
 - **Stenographer:** refers to an employee involved in bookkeeping or handling reception.
 - Example: The manager was very disappointed with the stenographer as he was very slow with his typing.
 - **Calligrapher:** means an individual who has mastered the art of calligraphy or handwriting.
 - Example: Renu got a lot of contracts for poster designing as she was a skilled calligrapher.
 - **Biographer:** means an author who writes life histories.
 - Example: The biographer produced narratives on the lives of various film personalities.
- Hence as per the meaning of the given words the correct answer is **Option 1 i.e. 'Cartographer'**.

2. Answer: b

Explanation:

The erroneous spelling is 'Greatful'.

★ Key Points

- The word with incorrect spelling is **option 2** i.e. 'Greatful'.
 - The correct spelling is '**Grateful**' which means 'thankful' or 'appreciative'.
 - All other options have the correct spelling.
-

3. Answer: a

Explanation:

The correct answer is '**little money**'.

★ Key Points

- The meaning of the given sentence suggests that the elder brother's income is lesser than the younger brother's.
- The adjective 'little' is wrongly used to describe money. 'Little' means small and is a positive degree adjective.
- Here we need a comparative degree adjective to compare the earning of the younger brother and elder brother.
- Hence we should use '**less money**' instead of '**little money**'.
- Thus option 1 i.e. 'little money' contains a grammatical error.

Correct Sentence - I earn **less** money than my younger brother.

4. Answer: a

Explanation:

The correct answer is '**latter**'.

★ Key Points

- The given word 'FORMER' means previous or erstwhile.
 - Let us look at the meaning of the given words :

- **'Latter'**- means something which happened last or most recently.
 - Example: His latter performance broke his all other previous records.
 - **Further:** means extra or in addition to something.
 - Example: Further to her knowledge of painting she is also a skilled sculptor.
 - **Earlier:** means former or previous.
 - Example: In earlier days girls were expected to do household chores only.
 - **Anterior:** means frontward or former.
 - Example: The anterior portion of the house had a small Tulip garden.
- Hence as per the meaning of the given words, the correct antonym is **option 1 'latter'**.

5. Answer: b

Explanation:

The erroneous part is **'since an hour'**.

★ Key Points

- The given sentence is in the present perfect continuous tense.
- The portion of the sentence 'since an hour' is grammatically wrong.
 - 'Since' is a preposition that refers to a previous point in time. It is generally used in present perfect or past perfect tenses.
- The correct preposition to be used here is 'for' in place of 'since'. Here 'for an hour' refers to the period of time for which the students have been practising.

The sentence after correction is: *The students have been doing yoga for an hour'.*

6. Answer: a

Explanation:

The correct answer is '**understand**'.

★ Key Points

- The given word 'Comprehend' means to understand, grasp or fathom something.
 - Let us look at the meaning of the given words:
 - **Understand:** means to comprehend or fathom or figure out something.
 - Example: Since Riju is a very introverted person it is very difficult to understand what is going on in his mind.
 - **Attack:** means aggression or invasion.
 - Example: It was very unethical for Runa to make a personal attack against Rima.
 - **Permit:** means to allow or grant.
 - Example: The authorized permit was a necessity for the vehicles to cross the International border.
 - **Confess:** means to disclose or divulge something.
 - Example: Out of fear the girl could not confess the truth in front of the police.
 - Hence out of the given words the correct answer is **option 1 i.e. understand**.

7. Answer: a

Explanation:

The correct answer is '**Explode in anger**'.

★ Key Points

- The given idiom 'Hit the ceiling' means to blow up in anger.
- Let us look at the meaning of the given phrases:
 - **Explode in anger**- means a sudden outburst of emotion filled with anger

- Example: It was time for Ajay to explode in anger as he has been facing injustice at home for a long time.
- **Reach the top:** means to succeed, prosper, and become famous
 - Example: It was not easy for Rima to reach the top as her path was strewn with pebbles of difficulties.
- **to Make good progress:** means improving well in something
 - Example: The coach explained to the trainees it requires hours of practice to make good progress in this sport.
- **Have high hopes:** means expecting something very good to happen
 - Example: Asim's parents have high hopes for him to excel in the upcoming competitive board exams.
- Hence according to the meaning of the given phrases, the correct answer is **Option 1 i.e. Explode in anger.**

8. Answer: b

Explanation:

The correct answer is '**Delay**'.

★ **Key Points**

- The given sentence suggests that we might lose the contract if we further detain it.
- Let us look at the meanings of the words given:
 - **Back-** means rear or hind.
 - Example They had a beautiful garden and a pond at the back of the house.
 - **Delay-** means detain or retard.
 - Example: With the further delay in applying for Government jobs, Hena may become ineligible to apply for the same.
 - **Late-** behind the scheduled time or not punctual.
 - Example: Radha is always late for her class as she needs to meet a lot of duties at home.
 - **Slow-** means gradual or very leisurely.

- Example- The lifestyle in the remote village of Ladakh is very slow and peaceful.
 - Hence, according to the meanings of the given words, **Option 2 i.e. Delay most appropriately fills the given blank.**
-

9. Answer: d

Explanation:

The correct answer is '**Utopia**'.

★ **Key Points**

- Let's see the meaning of the other given options:
 - **Idyll:** means respite.
 - Example: After the board examinations got over it was a much sought after idyll for Ritu.
 - **Myopia:** means vision hindrance caused by nearsightedness
 - Example: Hena's father could not do the official work as he was affected by Myopia.
 - **Countryside:** means rural area with a lot of farmlands or greeneries.
 - Example: It was all play and no work for Sanjay when he visited his maternal uncle's house in the countryside.
 - **Utopia:** means an imaginary community where everything is perfect or ideal. It has connections with the Greek word 'eu-topos' which means a 'good place' and 'ou-topos' which means 'nowhere'.
 - Example: It seems Samar lives in Utopia as he constantly buys lottery tickets with the aim of getting one million dollars.
 - Hence, according to the meanings of the given words, the correct answer is **Option 4 i.e. Utopia.**
-

10. Answer: d

Explanation:

The correct answer is '**Several months in a row**'.

★ Key Points

- The given idiom 'Months on end' means for many months.
 - Let us look at the meaning of all the phrases given:
 - **In a month's time** means 30 days or 1 month.
 - Example- Rima will achieve her goal in a month's time.
 - **End of the month** means last days of a month.
 - Example- It is too difficult for Vijay to meet his ends at the end of the month.
 - **Last month of the year** means December or the twelfth month of the year.
 - Example- The family was in a joyous mood with picnics and parties in the last month of the year.
 - **Several months in a row** means something happening for many months together.
 - Example- The authorities are not giving proper service for several months in a row.
- Hence according to the meanings of the given phrases, the correct answer is **Option 4 i.e. Several months in a row.**

11. Answer: c

Explanation:

The correct answer is '**As soon as**'.

★ Key Points

- The given blank requires a word that means 'immediately'
- The sentence suggests that immediately after seeing the fire the person mentioned in the sentence realised that there was a fire in the woods.

- Let us see the meaning of the given words:
 - **Scarcely**- means 'barely' or 'hardly'.
 - Example- The village was situated in a remote area and scarcely populated.
 - **Although**- means 'despite the fact'.
 - Example- Although the little boy told his mother about the problems he faced in school bus, his mother did not pay heed to it.
 - **As soon as**- means 'instantly' or 'immediately'.
 - Example- As soon as their father entered from office the overjoyed kids ran to him.
 - **Unless**- means 'except for' or 'lest'
 - Example- Unless his mother is strict enough Vijay will continue his mischievous activities.
- Hence as per the meanings of the given words, the correct answer is **Option 3** 'As soon as'.

12. Answer: c

Explanation:

The correct answer is 'submit'.

★ Key Points

- The given word '**yield**' means to give in or succumb to something or someone. (अधीन होना, समर्पण करना)
 - **Example** : The more Renu will yield to her in-laws the more she will be tortured.
- Let's see the meaning of the other given options:
 - **Retain**: 'To hold onto something' or 'maintain' (कायम रखना, बनाये रखना, प्रतिधारण करना)
 - **Example** : If the students retain the agitation the college may get closed.
 - **Deny**: 'Contradict' or 'Reject' (इनकार करना, नकारना, अस्वीकार करना)

- **Example** : Once Vijay has given a written testimonial it has become very difficult for him to deny the same.
- **Submit**: 'Give in' or 'Relent' ((समर्पण करना, हार मानना)
 - **Example** : Sita fought a lot to reach to the pinnacle, she will not submit easily.
- **Assert**: 'Proclaim' or 'Affirm' (दृढ़ता से कहना, दावा करना, अधिकार जताना)
 - **Example** : After many years of perseverance it was time for her to assert her own will and individuality.
- Hence, according to the meanings of the given words , **the correct answer is Option 3 i.e. submit.**

13. Answer: c

Explanation:

The correct answer is '**compliments**'.

★ Key Points

- Let's understand the given words:
 - **Counsel**: ' Formal advice given to someone' or 'a legal advisor conducting a case' E
 - Example: Rama got good counsel from her mother before her final examinations.
 - **Confirmation**: 'Affirmation' or 'Approval'.
 - Example: The students were waiting for confirmation from the principal.
 - **Compliments**: 'Admiration' or 'Applause'.
 - Example: Jui received several compliments for her exceptional work in the field of microbiological research.
 - **Complements**: 'something that makes complete' or 'accompaniment'
 - Example: The bride's gown perfectly complemented the groom's wedding suit.
- The given sentence suggests that a girl received a lot of praise for her good handwriting. Thus we will use the word which means 'praise' or 'applause'.

- Among the given words(options), only 'compliments' fits aptly in the given blank.

So the correct sentence is- *She received **compliments** for her beautiful handwriting.*

14. Answer: a

Explanation:

The erroneous part is 'completed information'.

★ Key Points

- The sentence suggests that the guide gave full information about the historical castle.
- Here an adjective is needed to describe the entirety of the information.
- When an event comes to an end we say it is '**completed**' whereas to denote entire or all aspects of something we use the adjective '**complete**'.
- Thus option 1 '*completed information*' should be replaced by '*complete information*' which means entire or full information.

So the correct sentence is- *The guide gave us **complete information** about the historical castle.*

15. Answer: b

Explanation:

The erroneous spelling is 'Interupt'.

★ Key Points

- The incorrect spelling is given in **Option 2**.
- The correct spelling of the word is "Interrupt"

- The meaning of the word is- to say or do something that makes somebody stop what he/she is saying or doing

Hence, the correct answer is **Option 2**.

★ Additional Information

- Possession- the state of having or owning something
- Guarantee- a firm promise that something will be done or that something will happen
- Threshold- the ground at the entrance to a room or building

16. **Answer: a**

Explanation:

The correct answer is **'haven't they'?**

★ Key Points

- The given sentence consists of a tag question that contains an auxiliary verb and a pronoun.
- The auxiliary verb's tense, modality, and aspect should same as that of the sentence along which it is used.
- It is being asked whether the boys have gone for a morning walk.
- The part of the sentence 'are they' is grammatically incorrect as the modal verb 'are' is wrongly used here.
- Hence option 3 is ruled out. Similarly 'Option 4' 'aren't they' will not fit in here because the modal verb should be 'have' and not 'are'.
- Option 2 is incorrect because by using 'have they', the sentence is getting repeated and the tag question becomes contextually incorrect.
- The only correct answer is option 1 'haven't they'.
- It has the same modal verb as that of the given sentence and the tag question is contextually correct and logically follows the given sentence.

17. Answer: d

Explanation:

The correct answer is **"requested"**

★ Key Points

- The given sentence refers to an incident which has happened yesterday.
- Hence we require a past tense verb to fill the blank. Also, the subject is singular and we need a singular verb here.
- Let us look at the options given:
- 'requests' is simple present tense and will not fit in the given blank. '
- request' is a plural verb and is inappropriate for the given blank.
- 'has requested' is present perfect tense, hence inappropriate for the given blank.
- 'requested' is a singular past tense verb and aptly fits in the given blank. Hence the correct option is Option 4 i.e. 'requested'.

18. Answer: a

Explanation:

The correct answer is **'straight'**.

★ Key Points

- The given word 'crooked' means bent or twisted.
- Example: The village had narrow crooked roads.
 - Let's see the meaning of other options.
 - **'Straight'** means linear and direct.
 - Example- The chief road of the city leads straight to the temple.
 - **'Curved'** means bent or twisted.

- Example- The child could not draw proper curved lines as instructed by her teacher.
 - **'Hooked'** means curved or 'hook-shaped'.
 - Example- The plastic pots carrying beautiful plants were hooked to the window grills.
 - **'Bent'** means twisted.
 - Example- The girl bent down in front of her grandmother to seek her blessings.
- Hence according to the meanings of the given words, the correct option is Option 1 i.e. straight.

19. **Answer: c**

Explanation:

The correct answer is '**might**'.

★ **Key Points**

- In this sentence, we require an auxiliary verb to be used with the main verb 'tow'.
- 'Tow' means pulling with a rope or chain.
- Hence the sentence suggests that if we park the car in a specific place there are chances that the police will pull it away.
- Hence the auxiliary verb should also be a modal verb that indicates 'likelihood'.
- 'Might' is an auxiliary modal verb that indicates 'possibility' or 'likelihood'.
- **Hence the correct option is Option 3 'might'.**

★ **Additional Information**

- 'Ought to' indicates something which is ideal.
- 'Need to' indicates an obligation.
- Hence the other options are out of context in this sentence.

20. Answer: a

Explanation:

The correct answer is '**No substitution required**'

★ Key Points

- The sentence suggests that there are constructions surrounding heritage buildings that have developed without authorized permission and the Government has ordered to demolish those constructions to protect the antique buildings.
- The sentence requires a preposition that will indicate illegal structures 'surrounding' or 'situated on every side 'of heritage buildings.
- Hence the preposition 'around' which means 'surrounding' or 'encircling' is correctly used in the given sentence.

★ Additional Information

- 'Without' is a preposition that means not having something.
- 'Towards' is a preposition that means in the direction of someone or something.
- 'Into' is a preposition that indicates something inside.
- Hence all these are inappropriate in the given context and **the sentence requires no substitution.**

21. Answer: b

Explanation:

The correct answer is '**simply**'

★ Key Points

- The given blank requires an adverb that will qualify the verb 'pass by'.

- The sentence suggests that we just overlook the litters on the road and walk away without cleaning the garbage created by us.
- 'Simply' is an adverb which means 'just' or 'merely'.
- Hence **option 2 'simply' is the correct option** i.e. "...we simply pass by.."

★ Additional Information

- 'Exactly' is an adverb which means precisely or accurately.
- 'Nearly' is an adverb which means very close to something.
- 'Fairly' is an adverb which means reasonably or satisfactorily.
- Hence all other options are inappropriate to fill the given blank

22. Answer: b

Explanation:

The correct answer is 'but'

★ Key Points

- The given blank requires a coordinating conjunction which will connect two contrasting ideas or events.
- The sentence suggests that even though there are lot of man-made litters on the road we just pass by without making any effort to clean up the mess.
- 'But' is a conjunction that connects the two contrasting events here, one is the heap of litter on the roads and the other is our disinterested attitude to clear up the same.
- Hence **option 2 'but' is the correct option.**

★ Additional Information

- 'So' is a subordinating conjunction used to indicate the result of something.
- 'Only' is an adjective that denotes very few.
- 'Than' is a conjunction that refers to a comparison between two things.
- Hence all other options are inappropriate to fill the given blank

23. Answer: d

Explanation:

The correct answer is 'mess'

★ Key Points

- The given blank requires a noun which means litter or rubbish.
- The sentence suggests that we do not care about the man made trashes that accumulate on roads and just pass by without any initiative to clear the dirt accumulated there..
- 'Mess' refers to a place or things which is dirty.
- Hence **Option 4 'mess'** is the **correct option**.

★ Additional Information

- 'Chaos' means a state of confusion.
- 'Pattern' means a specific design for something.
- 'Wreck' denotes severe destruction of something.
- Hence all other options are inappropriate to fill the given blank

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24. Answer: c

Explanation:

The correct answer is 'fatal'

★ Key Points

- The given blank needs a word which means lethal or something which is capable of causing death.
- The sentence suggests environmental pollution can lead to death of animals.
- 'Fatal' means deadly or something which causes death.

- Hence 'fatal' is the correct option.

★ Additional Information

- 'Final' means something which is last in order.
 - Vital means something which is most important or indispensable.
 - Trivial denotes something which is of very little value.
 - Hence all other options are inappropriate to fill the given blank.
-

25. Answer: b

Explanation:

The correct answer is '**causes**'

★ Key Points

- The given blank needs a verb that means 'creating diseases'.
- The sentence is in simple present tense with a singular subject 'It'.
- Thus the blank needs a simple present tense singular verb which means 'giving rise to diseases'
- Therefore 'causes' is the appropriate option for filling the given blank.

★ Additional Information

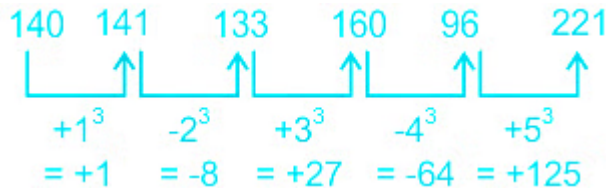
Let us look at other options:

- 'have caused' is present perfect tense
 - 'have been causing' is present continuous tense
 - 'cause' is a plural verb.
 - Hence all the other options are inappropriate here.
-

26. Answer: c

Explanation:

The logic followed here is :-

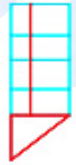


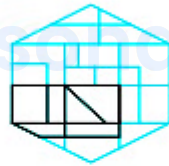






Hence, the correct answer is "221".

27. Answer: a

Explanation:

Given figure is as shown below :

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

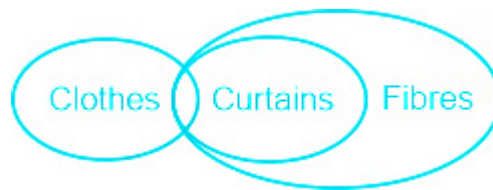
∴ Here, the figure in option 1 is not embedded in given figure.

Hence, the correct answer is "Option 1".

28. Answer: c

Explanation:

The least possible Venn diagram for the given statements is as shown below :



Conclusions:

- I. Some fibers are clothes → True (As All curtains are fibres and Some clothes are curtains so, Some fibers are clothes is true)
- II. No fibre is a cloth → False (As All curtains are fibres and Some clothes are curtains so, No fibre is a cloth is false)

∴ Here, Only conclusion I is true.

Hence, the correct answer is "Only conclusion I follows".

29. Answer: d

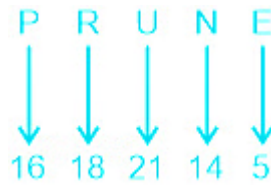
Explanation:

The logic followed here is :-

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

Code : Sum of alphabet positional value of given word.

'PRUNE' is written as '74'.



$\Rightarrow 16 + 18 + 21 + 14 + 5 = 74$

Similarly,

'LONDON' will be written as :



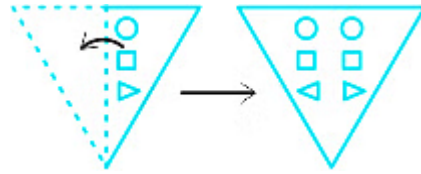
$\Rightarrow 12 + 15 + 14 + 4 + 15 + 14 = 74$

Hence, the correct answer is "74".

30. Answer: c

Explanation:

After unfolding the given paper the figure formed is as shown below :



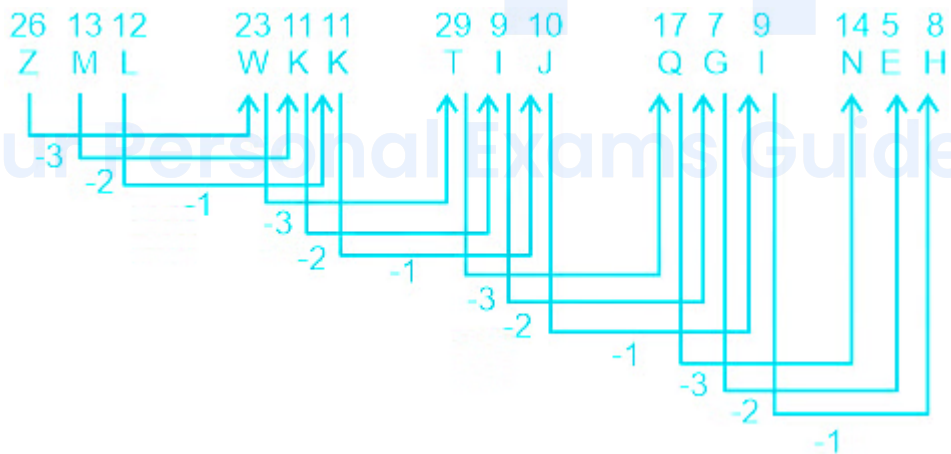
Hence, the correct answer is "Option 3".

31. Answer: d

Explanation:

The logic followed here is :-

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



Hence, the correct answer is "NEH".

32. Answer: c

Explanation:

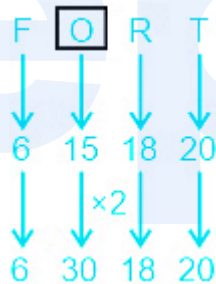
The logic followed here is :-

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

Consonants alphabet positional value remains same.

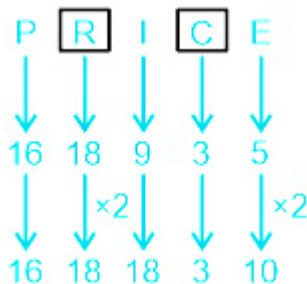
Vowels alphabet positional value increases $\times 2$ times.

- 'FORT' is written as '6301820'.



and, **Your Personal Exams Guide**

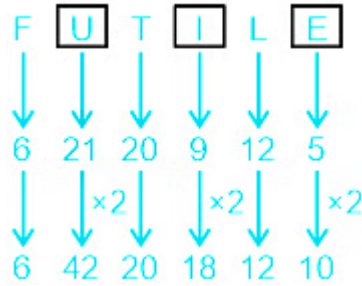
- 'PRICE' is written as '161818310'.



Similarly,

- Consonants \rightarrow Same
- Each vowel $\times 2$

- 'FUTILE' will be written as :



Hence, the correct answer is "64220181210".

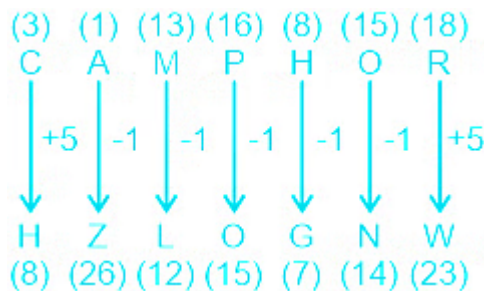
33. Answer: d

Explanation:

The logic followed here is :-

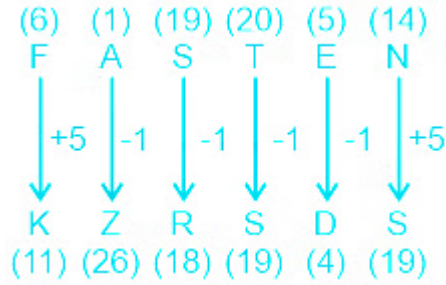
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

'CAMPHOR' is written as 'HZLOGNW'.



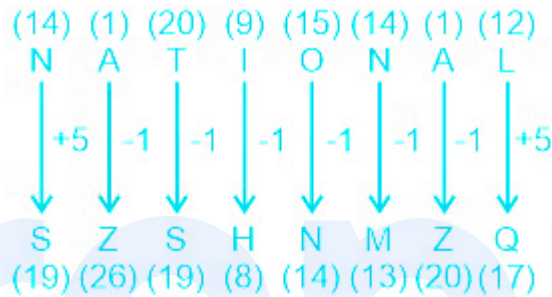
and,

'FASTEN' is written as 'KZRSDS'.



Similarly,

'NATIONAL' will be written as :



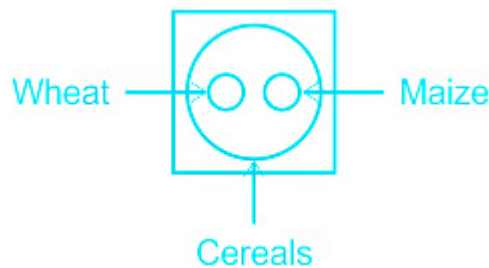
Hence, the correct answer is "SZSHNMZQ".

34. Answer: d

Explanation:

The least possible Venn diagram for the given relation is as shown below :

- Wheat and Maize comes under category of Cereals.
- All Wheat are Cereals.
- All Maize are Cereals.

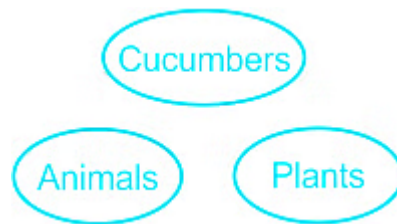


Option 1) : Spices, Cumin, Spinach

- All Cumin are spices.
- Spinach is a leafy vegetable.

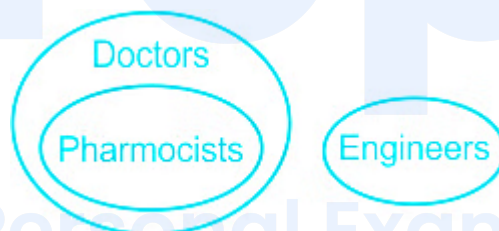


Option 2) : Animals, Plants, Cucumbers



Option 3) : Engineers, Doctors, Pharmacists

- Pharmacists also become doctor by studying Pharm D.
- Engineers pursue Bachelor of technology.



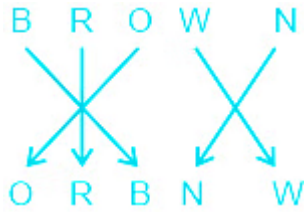
Hence, the correct answer is "Wheat, Maize, Cereals".

35. Answer: b

Explanation:

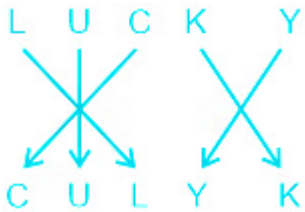
The logic followed here is :-

'BROWN' is written as 'ORBNW'.



Similarly,

'LUCKY' will be written as :



Hence, the correct answer is "CULYK".

36. Answer: d

Explanation:

By using BODMAS RULE :

Your Personal Exams Guide

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

Option 1) : - and ×

Given equation is : $8 \times 9 \div 15 + 30 - 5 = 63$

After interchanging signs in the given the equation formed is as follows :

$$\Rightarrow 8 - \underline{9 \div 15} + 30 \times 5 = 63$$

$$\Rightarrow 8 - 0.6 + \underline{30 \times 5} = 63$$

$$\Rightarrow 8 - 0.6 + 150 = 63$$

$$\Rightarrow \underline{158 - 0.6} = 63$$

$$\Rightarrow 157.4 \neq 63$$

LHS \neq RHS

Option 2) : + and -

Given equation is : $8 \times 9 \div 15 + 30 - 5 = 63$

After interchanging signs in the given the equation formed is as follows :

$$\Rightarrow 8 \times \underline{9 \div 15} - 30 + 5 = 63$$

$$\Rightarrow \underline{8 \times 0.6} - 30 + 5 = 63$$

$$\Rightarrow \underline{4.8} - 30 + \underline{5} = 63$$

$$\Rightarrow \underline{9.8 - 30} = 63$$

$$\Rightarrow 20.2 \neq 63$$

LHS \neq RHS

Option 3) : + and \times

Given equation is : $8 \times 9 \div 15 + 30 - 5 = 63$

After interchanging signs in the given the equation formed is as follows :

$$\Rightarrow 8 + \underline{9 \div 15} \times 30 - 5 = 63$$

$$\Rightarrow 8 + \underline{0.6 \times 30} - 5 = 63$$

$$\Rightarrow \underline{8 + 18} - 5 = 63$$

$$\Rightarrow \underline{26 - 5} = 63$$

$$\Rightarrow 21 \neq 63$$

LHS \neq RHS

Option 4) : \div and -

Given equation is : $8 \times 9 \div 15 + 30 - 5 = 63$

After interchanging signs in the given the equation formed is as follows :

$$\Rightarrow 8 \times 9 - 15 + \underline{30 \div 5} = 63$$

$$\Rightarrow \underline{8 \times 9} - 15 + 6 = 63$$

$$\Rightarrow \underline{72} - 15 + \underline{6} = 63$$

$$\Rightarrow \underline{78 - 15} = 63$$

$$\Rightarrow 63 = 63$$

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

Hence, the correct answer is "**÷ and -**".

37. Answer: a

Explanation:

The logic followed here is :-

$$\text{First number} + (\text{First number} + 2)^2 = \text{Second number.}$$

$$8 : 108$$

$$= 8 + (8 + 2)^2$$

$$= 8 + 10^2$$

$$= 8 + 100$$

$$= 108$$

Similarly,

$$12 : ?$$

$$= 12 + (12 + 2)^2$$

$$= 12 + 14^2$$

$$= 12 + 196$$

$$= 208$$

Hence, the correct answer is "**208**".

38. Answer: d

Explanation:

By using BODMAS RULE :

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

Option 1) : 14 and 95

Given equation is : $14 \times 7 - 25 \div 5 + 95 = 104$

After interchanging numbers in given equation the equation is as follows :

$$\Rightarrow 95 \times 7 - \underline{25} \div \underline{5} + 14 = 104$$

$$\Rightarrow \underline{95} \times \underline{7} - 5 + 14 = 104$$

$$\Rightarrow \underline{665} - 5 + \underline{14} = 104$$

$$\Rightarrow \underline{679} - \underline{5} = 104$$

$$\Rightarrow 674 \neq 104$$

LHS \neq RHS

Option 2) : 25 and 7

Given equation is : $14 \times 7 - 25 \div 5 + 95 = 104$

After interchanging numbers in given equation the equation is as follows :

$$\Rightarrow 14 \times 25 - \underline{7} \div \underline{5} + 95 = 104$$

$$\Rightarrow 14 \times \underline{25} - \underline{1.4} + 95 = 104$$

$$\Rightarrow \underline{350} - 1.4 + \underline{95} = 104$$

$$\Rightarrow \underline{445} - 1.4 = 104$$

$$\Rightarrow 443.6 \neq 104$$

LHS \neq RHS

Option 3) : 7 and 5

Given equation is : $14 \times 7 - 25 \div 5 + 95 = 104$

After interchanging numbers in given equation the equation is as follows :

$$\Rightarrow 14 \times 5 - \underline{25} \div \underline{7} + 95 = 104$$

$$\Rightarrow \underline{14} \times \underline{5} - 3.5714 + 95 = 104$$

$$\Rightarrow \underline{70} - 3.5714 + \underline{95} = 104$$

$$\Rightarrow \underline{165} - 3.5714 = 104$$

$$\Rightarrow 161.4286 \neq 104$$

LHS \neq RHS

Option 4) : 25 and 95

Given equation is : $14 \times 7 - 25 \div 5 + 95 = 104$

After interchanging numbers in given equation the equation is as follows :

$$\Rightarrow 14 \times 7 - \underline{95} \div 5 + 25 = 104$$

$$\Rightarrow \underline{14 \times 7} - 19 + 25 = 104$$

$$\Rightarrow \underline{98} - 19 + \underline{25} = 104$$

$$\Rightarrow \underline{123} - 19 = 104$$

$$\Rightarrow 104 = 104$$

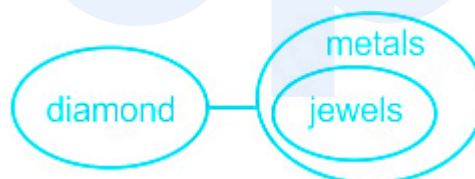
LHS = RHS

Hence, the correct answer is "25 and 95".

39. Answer: d

Explanation:

The least possible Venn diagram for the given statements is as shown below :



Conclusions:

I. No jewel is a diamond → True (As All jewels are metals and No metal is a diamond so, No jewel is a diamond is true)

II. No diamond is a metal → True (As All jewels are metals and No metal is a diamond so, No diamond is a metal is true)

III. Some metals are jewels → True (As All jewels are metals so, Some metals are jewels is true)

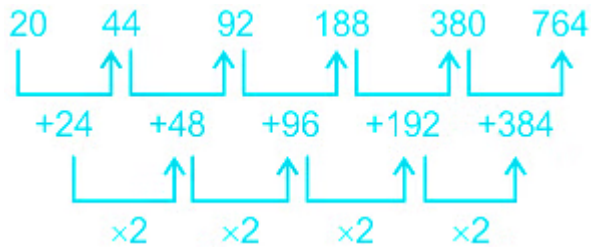
∴ Here, All conclusions are true.

Hence, the correct answer is "All of the conclusions follow".

40. Answer: d

Explanation:

The logic followed here is :-



Hence, the correct answer is "764".

41. Answer: a

Explanation:

The figure that complete the given pattern is as shown below :-



Hence, the correct answer is "Option 1".

42. Answer: b

Explanation:

The logic followed here is :-

Gymnasium is a room where exercises are performed.

Similarly,

School is a area where students get educated.

Hence, the correct answer is "Education".

43. Answer: a

Explanation:

The logic followed here is :-

In a column :

(First number + Second number) ²= Third number

Column 1) :

$$= (11 + 7)^2$$

$$= 18^2 = 324$$

and

Column 2) ;

$$= (9 + 8)^2$$

$$= 17^2 = 289$$

Similarly,

Column 3) :

$$\Rightarrow (11 + ?)^2 = 441$$

$$\Rightarrow 11 + ? = 21$$

$$\Rightarrow ? = 21 - 11$$

⇒ ? = 10

Hence, the correct answer is "10".

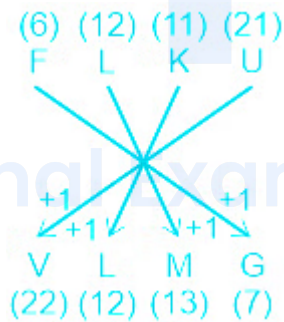
44. Answer: d

Explanation:

The logic followed here is :-

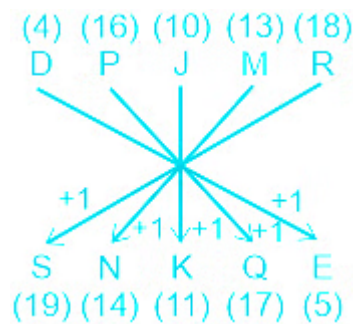
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

FLKU : VLMG



Similarly,

DPJMR : ?



Hence, the correct answer is "SNKQE".

45. Answer: c

Explanation:

Given : $B = D, C = U, B > G, U > R$ and $C > S$

On combining the given expressions the statement is as follows : $D = B > G, S < C = U > R$

1) $S < C \rightarrow \text{True} (S < C = U > R)$

2) $S < U \rightarrow \text{True} (S < C = U > R)$

3) $C < R \rightarrow \text{False} (S < C = U > R, \text{relation between C and R is } C > R)$

4) $G < D \rightarrow \text{True} (D = B > G)$

\therefore Here, the expression $C < R$ is false and all other three are true.

Hence, the correct answer is "C < R".

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46. Answer: d

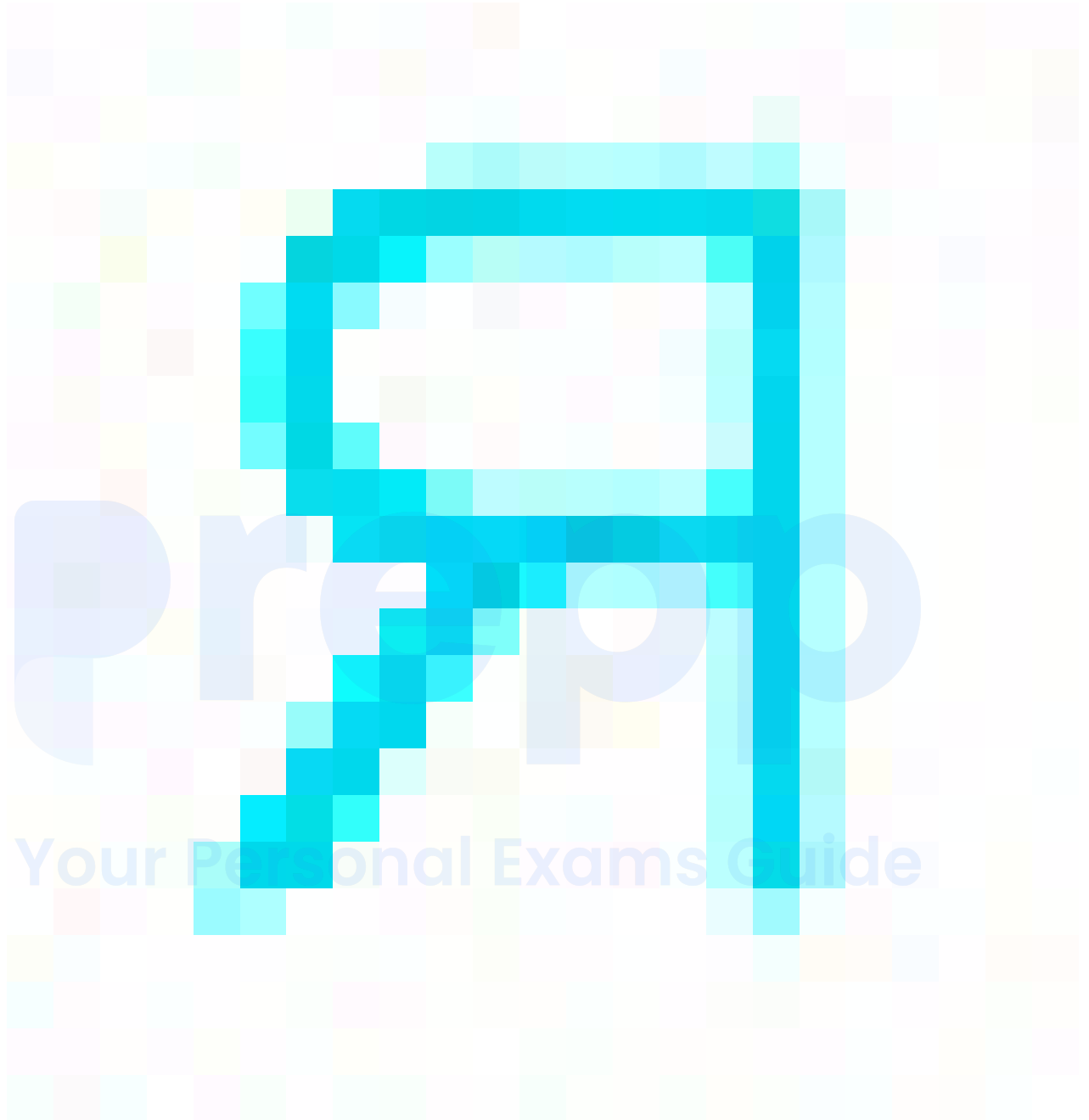
Explanation:

The correct mirror image of the given combination when the mirror is placed at MN is as shown below :-



Detailed Explanation:

- The line MN is the mirror.
- The word "XB75GR" ends with 'R'. So, mirror image will start with "



". ⇒ Option 2 and 3 are eliminated.

- The word "XB75GR" has second last letter "G". So, the mirror image should be "



". ⇒ Option 1 is eliminated.

Hence, the correct answer is "Option 4".

47. Answer: d

Explanation:

The logic followed here is :-

Food is prepared by chef.

Similarly,

Furniture is prepared or constructed by Carpenter.

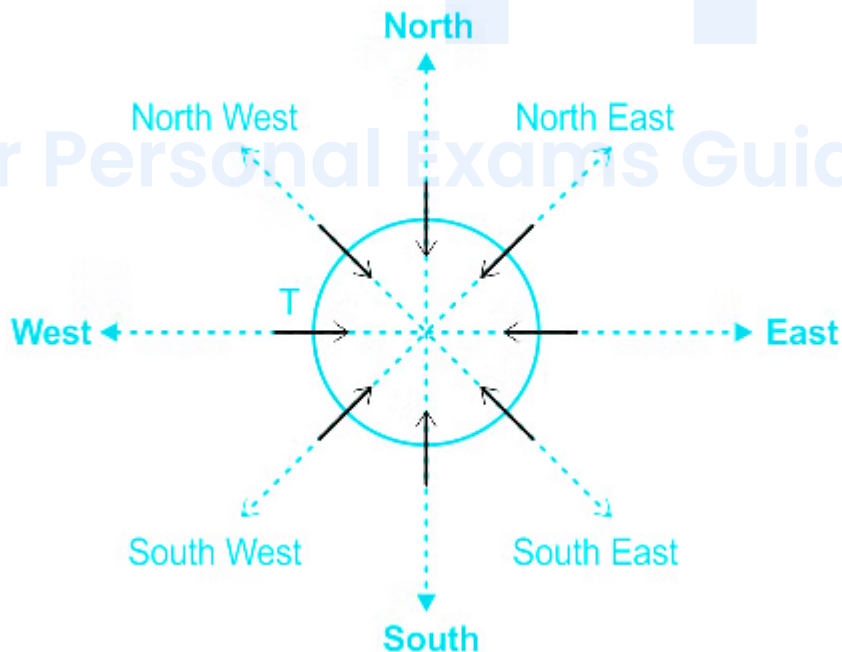
Hence, the correct answer is "**Furniture**".

48. Answer: c

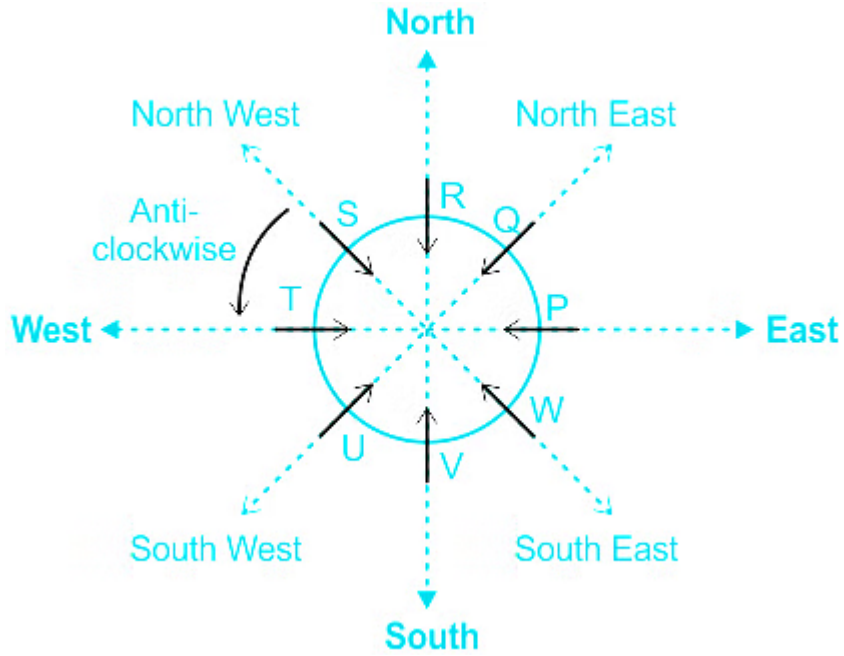
Explanation:

Given :

1) All are facing the centre of the table. If T is sitting in the west,



2) Eight friends P, Q, R, S, T, U, V and W are sitting **anticlockwise at equal distances in the same sequence around a circular table.**



∴ Here, 'U' is sitting to the third place to left of 'P'.

Hence, the correct answer is "U".

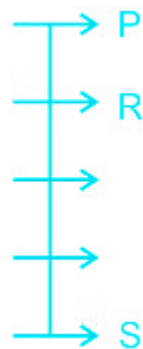
49. Answer: d

Explanation:

The logic followed here is :-

In a line, five friends P, Q, R, S and T are sitting, all facing East.

1) R is third to the left of S and also to the immediate right of P.



2) P is sitting at the second place to the left of T.



∴ Here, P and S are two persons sitting in corners.

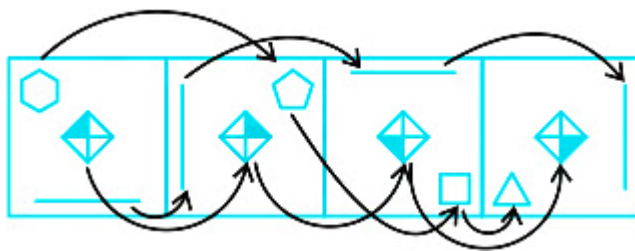
Hence, the correct answer is "P and S".

50. Answer: d

Explanation:

The logic followed here is :-

- Six sided polygon decreases on side from figure to figure by moving one step in clockwise.
- Line is moving one step clockwise from figure to figure.
- The darken part of rhombus moves +1 from 1st figure to 2nd figure with in rhombus.
- The darken part of rhombus moves +2 from 2nd figure to 3rd figure with in rhombus.
- The darken part of rhombus moves +3 from 4th figure to 3rd figure with in rhombus.



Hence, the correct answer is "option 4".

51. Answer: c

Explanation:

Given

Mean = 9

11, (k-2), 7, (k-1), 11, 16, 12, 15, (k-1), 13

Formula used

Mean = Sum of all observation/Number of observation

Calculation

$$9 = [11 + (k - 2) + 7 + (k - 1) + 11 + 16 + 12 + 15 + (k - 1) + 13] / 10$$

$$\Rightarrow 90 = (85 + 3k - 4)$$

$$\Rightarrow 90 + 4 = 85 + 3k$$

$$\Rightarrow 94 - 85 = 3k$$

$$\Rightarrow 9 = 3k$$

$$\Rightarrow k = 3$$

\therefore The value of k is 3.

52. Answer: b

Explanation:

Given

Selling price = Rs.5400

Discount = 10%

Formula used

Selling price = Market price - discount

Profit = Selling price - Cost price

Profit % = (profit/cost price) × 100

Calculation

let the cost price is Rs.x

market price = x + 20% of x

market price = $120x/100$

Discount = 10% of $120x/100$

Discount = $12x/100$

According to question

Selling price = Market price - Discount

$5400 = (120x/100) - (12x/100)$

$\Rightarrow 5400 = 108x/100$

$\Rightarrow x = (5400 \times 100)/108$

$\Rightarrow x = 5000$

Profit = 5400 - 5000

$\Rightarrow 400$

Profit % = $(400/5000) \times 100$

$\Rightarrow 8\%$

∴ Profit percentage is 8%.

★ Shortcut Trick

Marked = 20% (Higher)

Discount = 10%

By applying ratio method,

CP	MP
5	6
10	9
MP	SP

Here MP must be same,

∴ CP	MP
50	60
60	54 → 5400
MP	SP

1 → 100

$$CP = 50 \times 100 = 5000$$

$$SP = 5400$$

$$\begin{aligned} \text{Profit\%} &= (400/5000) \times 100 \\ &= 8\% \text{ (Ans)} \end{aligned}$$

53. Answer: b

Explanation:

Given

Principal = Rs.15,000

Simple interest = Rs 7350

Time period of loan = Rate of interest

Formula used

Simple interest = (principal \times rate \times time)/100

Calculation

let the rate of interest and period of loan is x

$$7350 = (15,000 \times x \times x)/100$$

$$\Rightarrow 735000 = 15000 x^2$$

$$\Rightarrow 735000/15000 = x^2$$

$$\Rightarrow 49 = x^2$$

$$\Rightarrow 7 = x$$

\therefore The rate of interest per annum is 7%.

54. Answer: d

Explanation:

Given

$$(4/9) : (2/3) : (3/4)$$

Concept

First convert the denominator of all the fractions same by taking the L.C.M of the denominator of all the given numbers

Calculation

let the numbers are $(4x/9)$, $(2x/3)$ and $(3x/4)$

L.C.M of 9,3 and 4 is 36

$$(4 \times 4)/(9 \times 4) = 16x/36$$

$$(2 \times 12)/(3 \times 12) = 24x/36$$

$$(3 \times 9)/(4 \times 9) = 27x/36$$

$$\text{greatest number} = 27x/36$$

$$\text{smallest number} = 16x/36$$

According to question

$$(27x/36) - (16x/36) = 33$$

$$\Rightarrow 11x/36 = 33$$

$$\Rightarrow x = (33 \times 36)/11$$

$$\Rightarrow x = 108$$

$$\text{greatest number is } (27 \times 108)/36$$

$$\Rightarrow 81$$

\therefore The greatest number is 81

55. Answer: c

Explanation:

Given

Average time = 2 minutes 10 second

number of athletes = 7

Formula used

Average = Sum of all observation/Number of observation

1 minute = 60 seconds

Calculation

Total time taken by 7 athletes = $7 \times (2 \text{ minutes and } 10 \text{ seconds})$

$\Rightarrow 7 \times 130 \text{ seconds}$

$\Rightarrow 910 \text{ seconds}$

$\Rightarrow 15 \text{ minutes } 10 \text{ seconds}$

Average time taken by other athletes = $(15 \text{ minutes } 10 \text{ seconds} - 1 \text{ minute } 40 \text{ seconds})/6$

$\Rightarrow (13 \text{ minutes } 30 \text{ seconds})/6$

$\Rightarrow 2 \text{ minutes } 15 \text{ seconds}$

since $(13 \text{ minutes} = 12 \text{ minutes} + 1 \text{ minute})$

$\Rightarrow 12 \text{ minutes are divided by } 6 = 2 \text{ minutes}$

$\Rightarrow 1 \text{ minute} = 60 \text{ seconds}$

$\Rightarrow \text{total } 60 + 30 \text{ seconds}$

$\Rightarrow 90 \text{ seconds}$

when 90 is divided by 6 = 15

so, average time is 2 minutes 15 seconds

\therefore Average time is 2 minutes 15 seconds

Given:-

★ Shortcut Trick

Average time of all 7 players (a) = 2 min 10 sec = 130 sec

Average time of n players (b) = 1 min 40 sec = 100 sec

where, $n = 1$

Average of remaining players(c) = ?

Formula used :-

$$\text{Number of remaining player} = \frac{n(a-b)}{(c-a)}$$

Calculation:-

According to question-

$$\Rightarrow 6 = [1 \times (130 - 100)] / (c - 130)$$

$$\Rightarrow 6c - 780 = 30$$

$$\Rightarrow 6c = 810$$

$$\Rightarrow c = 135 = 2 \text{ min } 15 \text{ sec}$$

\therefore Average time of remaining players is 2 min 15 sec.

56. Answer: a

Explanation:

Given

$$6 - \left[\left\{ \left(\frac{20}{24} \div \frac{1}{2} \right) + \frac{48}{56} - \frac{6}{7} \right\} \text{ of } \frac{6}{10} - 7 \right]$$

Concept

BODMAS

Bracket	[, {, (
O	"OF"
D	Division, ÷
M	Multiply, ×
A	Addition, +
S	Subtraction, -

Calculation

$$6 - \left[\left\{ \left(\frac{20}{24} \times \frac{2}{1} \right) + \left(\frac{48-48}{56} \right) \right\} \times \frac{6}{10} - 7 \right]$$

$$\Rightarrow 6 - \left[\left(\frac{10}{6} \right) \times \frac{6}{10} - 7 \right]$$

$$\Rightarrow 6 - [1 - 7]$$

$$\Rightarrow 6 - [-6]$$

$$\Rightarrow 6 + 6$$

$$\Rightarrow 12$$

$$\therefore 6 - \left[\left\{ \left(\frac{20}{24} \div \frac{1}{2} \right) + \frac{48}{56} - \frac{6}{7} \right\} \text{ of } \frac{6}{10} - 7 \right] \text{ is } 12.$$

57. Answer: b

Explanation:

Given

selling price of 1 type pf bedsheet = Rs.12,000

Selling price of 2nd type of bedsheet = Rs,10,350

Formula used

Selling price = Cost price + Profit

Calculation

let the cost price of one type of bedsheet is x

$$12,000 = x + 20\% \text{ of } x$$

$$\Rightarrow 12,000 = 120x/100$$

$$\Rightarrow x = (12,000 \times 100)/120$$

$$\Rightarrow x = 10,000$$

Let the cost price of second type of bedsheet

$$10,350 = y + 15\% \text{ of } y$$

$$\Rightarrow 10,350 = 115y/100$$

$$\Rightarrow y = (10,350 \times 100)/115$$

$$\Rightarrow y = 9000$$

$$\text{Total cost price} = 10,000 + 9,000$$

$$\Rightarrow 19,000$$

$$\text{Total selling price} = 12,000 + 10,350$$

$$\Rightarrow 22,350$$

$$\text{Profit} = 22,350 - 19,000$$

$$\Rightarrow 3350$$

\therefore Profit on bedsheets is Rs.3350

58. Answer: b

Explanation:

Given

Tap 1 take to fill the pool = 3 days or 72 hours

Tap 2nd take to fill the pool = 2 days or 48 hours

Tap 3rd take to fill the pool = 18 hours

Calculation

let the total units to be filled (L.C.M OF 72, 48, and 18 hours) = 144 units

Tap 1 filled pool in 1 hour = $144/72$

⇒ 2 unit

Tap 2nd filled pool in 1 hour = $144/48$

⇒ 3 units

Tap 3rd filled pool in 1 hour = $144/18$

⇒ 8 units

A pool filled in 8 hours = 13×8

⇒ 104 units

Remaining pool left after 8 hours = 144 units - 104 units

⇒ 40 units

remaining tank fill in

⇒ $40/(2 + 8)$

⇒ 4 hours

∴ The total time taken to fill the tank is 12 hours.

59. Answer: c

Explanation:

Given

speed = 10km/h

Time = 90 seconds

Formula used

Distance = speed × time

Calculation

1 hour = 3600 seconds

1 km = 1000 m

10km = 10,000 m

Distance = $(10,000/3600) \times 90$

⇒ 250 m

∴ The length of the bridge is 250 m

60. Answer: a

Explanation:

Given

Total money = Rs.2100

Calculation

let the Kamal's sister has Rs. x

so, Kamal has Rs. $(2100 - x)$

According to question

$$x = 2100 - x + 300$$

$$\Rightarrow x + x = 2400$$

$$\Rightarrow 2x = 2400$$

$$\Rightarrow x = 1200$$

Initial amount Kamal's sister had = Rs.1200

Kamal had $2100 - 1200$

$$\Rightarrow 900$$

Ratio of initial amount = $900 : 1200$

$$\Rightarrow 3 : 4$$

\therefore The ratio of the initial amounts that Kamal and her sister had is $3 : 4$

★ Alternate Method

Kamal and her sister together have Rs. 2,100.

$$K + S = 2100 \dots\dots(1)$$

On taking Rs. 300 from her sister, Kamal will have the same amount as what her sister had earlier.

$$K + 300 = S \dots\dots(2)$$

Put the value of (2) in (1),

$$K + K + 300 = 2100$$

$$K = 900$$

$$S = 1200$$

Ratio of initial amount = 900 : 1200

$$\Rightarrow 3 : 4$$

\therefore The ratio of the initial amounts that Kamal and her sister had is 3 : 4

61. Answer: b

Explanation:

Given:

$$3\frac{1}{9} \div \frac{4}{9} \text{ of } (7\frac{3}{10} + 3\frac{1}{5}) + \frac{4}{5} \div 2\frac{2}{5}$$

Concept:

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

Calculation:

$$3\frac{1}{9} \div \frac{4}{9} \text{ of } (7\frac{3}{10} + 3\frac{1}{5}) + \frac{4}{5} \div 2\frac{2}{5}$$

$$\Rightarrow \frac{28}{9} \div \frac{4}{9} \times \left(\frac{73}{10} + \frac{16}{5} \right) + \frac{4}{5} \div \frac{12}{5}$$

$$\Rightarrow \frac{28}{9} \div \frac{4}{9} \times \left(\frac{73+32}{10} \right) + \frac{4}{5} \times \frac{5}{12}$$

$$\Rightarrow \frac{28}{9} \div \frac{4}{9} \times \frac{105}{10} + \frac{1}{3}$$

$$\Rightarrow \frac{28}{9} \div \frac{420}{90} + \frac{1}{3}$$

$$\Rightarrow \frac{28}{9} \times \frac{90}{420} + \frac{1}{3}$$

$$\Rightarrow \frac{28}{42} + \frac{1}{3}$$

$$\Rightarrow \frac{(28+14)}{42}$$

$$\Rightarrow \frac{42}{42}$$

$$\Rightarrow 1$$

$$\therefore 3\frac{1}{9} \div \frac{4}{9} \text{ of } (7\frac{3}{10} + 3\frac{1}{5}) + \frac{4}{5} \div 2\frac{2}{5} \text{ is } 1$$

62. Answer: d

Explanation:

Given

The radius of cylindrical container = 20 cm

Quantity of grain in a bag = 100 kg

Formula used

The volume of cylindrical container = $\pi r^2 h$

where r and h are the radius and height of the cylindrical container respectively

Calculation

$$\text{Volume of container} = (22/7) \times 20 \times 20 \times 70$$

$$\Rightarrow 22 \times 400 \times 10$$

$$\Rightarrow 88000 \text{ cm}^3$$

$$\text{Three cylindrical container contain} = 3 \times 88000$$

$$\Rightarrow 264000 \text{ cm}^3$$

$$\text{Quantity left in bag} = (100 \times 3000) - 264000$$

$$\Rightarrow 3,00,000 - 2,64,000$$

$$\Rightarrow 36,000 \text{ cm}^3$$

$$1 \text{ kg} = 3000 \text{ cm}^3 \text{ (Given)}$$

$$\text{so, } 1 \text{ cm}^3 = (1/3000) \text{ kg}$$

$$\Rightarrow 36,000 \text{ cm}^3 = (1/3000) \times 36,000$$

$$\Rightarrow 12 \text{ Kg}$$

\therefore 12 kg left in a grain bag.

63. Answer: d

Explanation:

Given

Speed of truck for first 4 hours of journey = 90 km/h

Formula used

Speed = Distance/Time

Calculation

Distance covered in first four hours = 90×4

$$\Rightarrow 360 \text{ km}$$

Distance covered in 6 hours = 6×50

$$\Rightarrow 300 \text{ km}$$

Total Distance covered = $360 + 300$

$$\Rightarrow 660 \text{ km}$$

Total time = 4 + 6

⇒ 10 hours

Average speed = $660/10$

⇒ 66 km

∴ Average speed of truck is 66 km/h

64. Answer: c

Explanation:

Given

Speed of first girl from point A = 5 km/h

Time taken by first girl from point A = 12 minutes

Formula used

Speed = Distance/Time

1 hour = 60 minutes

Calculation

Time taken by first girl from point A = $(12/60)$ h

⇒ $(1/5)$ h

Distance travel by first girl from point A = $5 \times (1/5)$

⇒ 1 km

Distance travel by second girl from point B = 1 km

Time taken by second girl from point B = 15 MINUTES i.e.(25 minutes - 10 minutes)

⇒ (15/60) hours

⇒ (1/4) hour

Speed of second girl from point B = $1/(1/4)$

⇒ $(1/1) \times (4/1)$

⇒ 4 km/h

∴ The speed of second girl from point B is 4 km/h

65. Answer: b

Explanation:

Production of company C in the years 1996 and 1997 = 40 + 62

⇒ 102

Production of company B in the years 1999 and 2000 = 49 + 55

⇒ 104

Required ratio = 102 : 104

51 : 52

∴ The ratio of the production of Company C in the years 1996 and 1997 to the production of Company B in the years 1999 and 2000 is 51 : 52

66. Answer: a

Explanation:

Given

Principal = Rs.10,000

Rate = 10%

Time = 2 years

Formula used

Simple interest = $(\text{Principal} \times \text{rate} \times \text{time})/100$

Compound interest = Amount - Principal

Amount = $P(1 + r\%)^t$

where p, r and t are principal, rate and time respectively

Calculation

Simple interest = $(10,000 \times 10 \times 2)/100$

⇒ 2000

Compound interest = $10,000(1 + 10\%)^2 - 10,000$

⇒ $10,000 \times (110/100)^2 - 10,000$

⇒ $10,000 \times (11/10)^2 - 10,000$

⇒ $10,000 \times (121/100) - 10,000$

⇒ 12100 - 10,000

⇒ 2100

Rs. 100 i.e. (2100 - 2000) will be pay as more compound interest than simple interest.

∴ Rs. 100 more interest will be earned if he is paid compound interest instead of simple interest.

67. Answer: b

Explanation:

Given

Area of square park = 4356 m^2

Formula used

Area of square = $(\text{side})^2$

Perimeter of square = $4 \times \text{side}$

Circumference of circle = $2\pi r$

where r is radius of circle

Calculation

Area of square = $(\text{side})^2$

$4356 = (\text{side})^2$

$\Rightarrow 66 \text{ m} = \text{side}$

Perimeter of square park = $4 \times \text{side}$

$\Rightarrow 4 \times 66$

$\Rightarrow 264 \text{ m}$

Circumference of circular park = $2\pi r$

$264 = 2 \times (22/7) \times r$

$\Rightarrow r = (264 \times 7)/(2 \times 22)$

$\Rightarrow r = 42$

Area of circular park = πr^2

$\Rightarrow (22/7) \times (42) \times (42)$

$$\Rightarrow 22 \times 6 \times 42$$

$$\Rightarrow 132 \times 42$$

$$\Rightarrow 5544 \text{ m}^2$$

\therefore Area of circular park is 5544 m^2

68. Answer: d

Explanation:

Given

Quantity of juice = 140 litres

Percentage of water = 40%

Quantity of juice sold = 30 litres

Calculation

Quantity of juice = 140

Ratio of syrup and water in a juice = 60% : 40%

$$\Rightarrow 3 : 2$$

Quantity of syrup = $140 \times (3/5)$

$$\Rightarrow 84 \text{ litres}$$

Quantity of water = $140 \times (2/5)$

$$\Rightarrow 56 \text{ litres}$$

Quantity of juice sold = 30 litres

Quantity of syrup in juice sold = $(3/5) \times 30$

⇒ 18 litres

Quantity of water in juice sold = $(\frac{2}{5}) \times 30$

⇒ 12 litres

Quantity of syrup left = $(84 - 18)$

⇒ 66 litres

Quantity of water left = $56 - 12$

⇒ 44 litres

Let x litres of syrup and water is added in juice

According to question

$$(66 + x)/(44 + x) = 4/3$$

$$\Rightarrow 3(66 + x) = 4(44 + x)$$

$$\Rightarrow 198 + 3x = 176 + 4x$$

$$\Rightarrow 198 - 176 = 4x - 3x$$

$$\Rightarrow 22 = x$$

∴ 22 litres of water is added .

69. Answer: d

Explanation:

Given

Original radius = 6 cm

New radius = 10 cm

Formula used

Surface area of sphere = $4\pi r^2$

where r is radius respectively

Calculation

Original surface area of spherical balloon : New surface area of spherical balloon = $4\pi R^2 : 4\pi r^2$

$$\Rightarrow (6 \times 6) : (10 \times 10)$$

$$\Rightarrow 36 : 100$$

$$\Rightarrow 9 : 25$$

\therefore The ratio in the surface area of the original balloon and the inflated balloon is 9 : 25

70. Answer: d

Explanation:

House rent = 16%, and saving = 14%

Total house rent and savings

$$\Rightarrow 16 + 14 = 30\%$$

According to the question,

Central angle

$$\Rightarrow (30/100) \times 360$$

$$\Rightarrow 108^\circ$$

\therefore The central angle of the combined section for House Rent and Savings is 108°

71. Answer: b

Explanation:

Given

Percentage of students increased in section B = 12%

Formula used

Percentage change = $(\text{Change in value} / \text{Original value}) \times 100$

Calculation

Let the number of students in class B is 100

Percentage of students increased in section B = 12%

Number of students increased by 12

New number of students in Section B = $100 + 12$

$\Rightarrow 112$

Number of students transfer from section B to section A = 12

Percentage of students decreased in section B = $(12/112) \times 100$

$\Rightarrow 10.71\%$

\therefore The percentage of students of section B decrease is 10.71%

72. Answer: a

Explanation:

Given

Number of days food available = 14

Number of people = 300

Number of people increased = 350

Concept

Indirect variation

If on the increase of one quantity say x the other quantity, say y decreases to same extent or vice versa, then, it is an indirect variation.

$$x_1 y_1 = x_2 y_2$$

Calculation

As number of person increased from 300 to 350, so the food available for less number of days.

let food available for number of days is x and number of person is y

$$x_1 y_1 = x_2 y_2$$

$$14 \times 300 = 350 \times x_2$$

$$\Rightarrow x_2 = (14 \times 300)/350$$

$$\Rightarrow x_2 = 12$$

\therefore Supply of food will be sufficient for 12 days.

73. Answer: d

Explanation:

Given

Market price = Rs.2000

Successive discount by first seller = 25% and 15%

Successive discount by second person = 10% and 30%

Formula used

Selling price = Market price - discount

Calculation

Selling price after first discount by first dealer = $2000 - 25\%$ of 2000

⇒ $2000 - 500$

⇒ 1500

Selling price after second discount = $1500 - 15\%$ of 1500

⇒ $1500 - 225$

⇒ 1275

Selling price after first discount by second dealer = $2000 - 10\%$ of 2000

⇒ $2000 - 200$

⇒ 1800

Selling price after second discount = $1800 - 30\%$ of 1800

⇒ $1800 - 540$

⇒ 1260

∴ At Rs.1,260 price is best available.

74. Answer: a

Explanation:

Given

sum of two numbers = 140

L.C.M= 240

HCF = 20

Concept

Product of two numbers = Product of L.C.M and H.C.F

Calculation

Let the one number is x and second number is $(140 - x)$

$$x \times (140 - x) = 240 \times 20$$

$$\Rightarrow 140x - x^2 = 4800$$

$$\Rightarrow -x^2 + 140x - 4800 = 0$$

$$\Rightarrow x^2 - 140x + 4800 = 0$$

$$\Rightarrow x^2 - 60x - 80x + 4800 = 0$$

$$\Rightarrow x(x - 60) - 80(x - 60) = 0$$

$$\Rightarrow (x - 60)(x - 80) = 0$$

$$\Rightarrow x = 60 \text{ and } 80$$

\therefore Smaller number is 60.

75. Answer: a

Explanation:

Total number of enrollment

In 1995 = 424

In 1996 = 425

In 1997 = 540

In 1998 = 478

In 1999 = 518

In 2000 = 517

∴ In 1995, total number of enrollment was minimum.

76. Answer: a

Explanation:

The correct answer is 1911.

★ Key Points

- On 12 December 1911, King George V proclaimed the transfer of the capital from Calcutta to Delhi at the climax of the 1911 Imperial Durbar.
- Until 1911, Calcutta was the capital of India during the British Raj.
- Calcutta was the capital of British India from 1772 to 1911.

★ Additional Information

- From 1912 to India's Independence in 1947, Calcutta was the capital of all of Bengal.
- Shimla had become the summer capital by the latter half of the 19th century.
- In early 1931, the buildings housing the Viceroy, government, and parliament were inaugurated.
- Reasons for shifting capital-
 - One of the main reasons that were cited for the capital shift was the location of the capital (Delhi).

- Delhi was located in the northern part while Calcutta was situated in the eastern coastal part of the country.

77. Answer: d

Explanation:

The correct answer is Bharatnatyam.

★ Key Points

- Meenakshi Srinivasan (born 11 June 1971) is an Indian classical dancer and choreographer, and an exponent of the **Pandanallur style of Bharatnatyam**.
- Bharatnatyam is one of the oldest dance forms and its roots have been traced back almost 2000 years . It can be compared with Odissi in terms of form and technique .
- The music associated with Bharatanatyam is in South India's Carnatic style and instruments played comprise of cymbals, the flute, along pipe horn called nagaswaram, a drum called mridangam and veena . The verses recited during the performance are in Sanskrit, Tamil, Kannada and Telugu .

★ Additional Information

- 8 Classical Dances of India and States:

Dance	State
Bharatanatyam	Tamil Nadu
Kathak	Uttar Pradesh
Kathakali	Kerala.
Kuchipudi	Andhra Pradesh.
Odissi	Odisha
Sattriya	Assam
Manipuri	Manipur
Mohiniyattam	Kerala

78. Answer: b

Explanation:

The correct answer is Mumbai Indians.

★ Key Points

- Mumbai Indians won the 2019 Indian Premier League .
- The team is owned by Reliance Industries Chairman Mukesh Ambani .
- Its current captain is Rohit Sharma
- The team won the IPL 5 times i.e. in the year 2013, 2015, 2017, 2019, and 2020.
- In 2019, Mumbai Indians defeated Chennai Super Kings by 1 run.

★ Additional Information

- Indian Premier League:
 - It is an Indian Twenty20 cricket league.
 - It was started in the year 2008.

79. Answer: b

Explanation:

The correct answer is Vaporisation.

- **Vaporisation** converts liquid directly into its vapour form.
 - Vaporization of an element or compound is a phase transition from the liquid phase to vapour.

★ Additional Information

- **Condensation:** The process by which water vapour in the air is changed into liquid water is called condensation.
 - This caused the water vapour to condense, or turn into its liquid form.
 - Condensation is crucial to the water cycle because it is responsible for the formation of clouds.
- **Evaporation :** The vaporization occurring from the free surface of a liquid is called evaporation .
 - Evaporation is the escape of molecules from the surface of a liquid .
 - This process takes place at all temperatures and increases with the increase of temperature.
 - Evaporation leads to cooling because the faster molecules escape and, therefore, the average kinetic energy of the molecules of the liquid (and hence the temperature) decreases.
- **Sublimation :** It is the conversion of a solid directly into vapours.
 - Sublimation takes place when the boiling point is less than the melting point.
 - The heat required to change a unit mass of solid directly into vapours at a given temperature is called the heat of sublimation at that temperature.

80. Answer: a

Explanation:

The correct answer is RK Shanmukham Chetty.

★ Key Points

- RK Shanmukham Chetty presented the first Union Budget of Independent India.
- He presented the first Union Budget of Independent India on 26 th November 1947.
- RK Shanmukham Chetty served as the first Finance Minister of independent India from 1947 to 1949.

★ Additional Information

- Tiruvellore Thattai Krishnamachari was an Indian politician who served as Finance Minister from 1956 to 1958 and from 1964 to 1966.
- Syama Prasad Mukherjee served as the Minister for Industry and Supply in Prime Minister Jawaharlal Nehru's cabinet.
- Jagjivan Ram (5 April 1908 – 6 July 1986), known popularly as Babuji, was an Indian independence activist and politician from Bihar.

81. Answer: d

Explanation:

The correct answer is Bimal Julka.

★ Key Points

- Bimal Julka succeeded Sudhir Bhargava as Chief Information Commissioner in March 2020 .
- He was selected by the high-powered selection committee headed by Narendra Modi.

★ In News

- Yashvardhan Kumar Sinha has been recently appointed as the Chief Information Commissioner (CIC). (as of July 2022)

- The post of CIC was held by Bimal Julka, Prior to the appointment of Yashvardhan Kumar Sinha.

★ Additional Information

- The first Chief Information Commissioner of India was Wajahat Habibullah .
- The first woman Chief Information Commissioner was Deepak Sandhu.
- The Chief Information Commissioner and an information commissioner holds office for **three** years or until they attain the age of 65 years .
- They are not eligible for re-appointment .
- The Central Information Commission has been constituted with effect from 12-10-2005 under the Right to Information Act, 2005.
- The jurisdiction of the Commission extends over all Central Public Authorities.

82. Answer: b

Explanation:

The correct answer is China.

★ Key Points

- The LAC (Line of Actual Control) is the demarcation that separates Indian-controlled territory from Chinese-controlled territory.
- LAC is the demarcation that was formed after the 1962 Sino-Indian War and is part of the Sino-Indian border dispute.
- The term is said to have been used by Zhou Enlai in a 1959 letter to Jawaharlal Nehru.

★ Confusion Points

- LOC
 - Line of control (an imaginary line between India and Pakistan)
- LAC
 - Line of actual control (effective border between India and the republic of china)

★ Additional Information

1	Boundary line between Pakistan and Afghanistan demarcated by Sir Mortimer Durand in the year 1896	Durand Line
2	Boundary line between India and China demarcated by Sir Henry McMahon in the year 1914	McMohan Line
3	Boundary line between India and Pakistan demarcated by Sir Cyril Radcliffe in the year 1947	Radcliffe Line
4	Line of fortification drawn by Germany on its border with France	Seigfried Line
5	The line which defined the boundary between North Vietnam and South Vietnam before the two were united in the year 1976 is called?	17th Parallel
6	Boundary line between Libya and Sudan	20th Parallel North
7	Boundary line between Egypt and Sudan	22nd Parallel North
8	Boundary line between North Korea and South Korea	38th Parallel
9	Boundary line between USA and Canada	49th Parallel
10	Boundary line between France and Germany	Maginot Line

83. Answer: a

Explanation:

The correct answer is Rs.50,000.

★ Key Points

- Under the Shishu category , loans are provided for up to Rs. 50,000.

- MUDRA which stands for Micro Units Development and Refinance Agency Bank (or 'MUDRA Bank is a public sector financial institution in India.
- It provides loans at low rates to micro-finance institutions and non-banking financial institutions.

★ Additional Information

- It provides credit to MSMEs and was launched by Prime Minister Narendra Modi on 8 April 2015.
 - **Shishu** : covering loans up to 50,000/.
 - **Kishor** : covering loans above 50,000/- and up to 5 lakh.
 - **Tarun** : covering loans above 5 lakh and up to 10 lakh.

84. Answer: c

Explanation:

The correct answer is Uttar Pradesh.

- **Uttar Pradesh** has the highest number of legislative seats in India.
 - Total legislative seats in Uttar Pradesh – 403.
 - Total Lok Sabha seats in Uttar Pradesh – 80.
 - Total Rajya Sabha seats in Uttar Pradesh – 31.

★ Additional Information

- It is a Legislative body, this house is known as the Lower house (Vidhan Sabha) of the State Legislative assembly just like the Lok Sabha in the Union legislature.
- 28 states and 3 union territories have legislative assembly and 6 states also have the State Legislative Council (Vidhan Parishad) or the Upper House.
- The Member of the Legislative Assembly (MLA) is directly elected by Voting Process and to Serve 5-year terms by Single Member constituencies . The Constitution of India states that a State Legislative Assembly must have No more than 500 members and not less than 60 members.

- For the qualification of Legislative assembly, the member must be a citizen of India and at least 25 years old, and must be registered on the Voters List of the state for which She or He is contesting an Election of that state.
-

85. Answer: b

Explanation:

The correct answer is 1992.

★ Important Points

- Securities Appellate Tribunal is a statutory body established under the provisions of Section 15K of the **Securities and Exchange Board of India Act, 1992**.
 - Securities Appellate Tribunal deals with cases with respect to SEBI, IRDAI and PFRDA.
 - The jurisdiction of the Securities Appellate Tribunal is the whole of India.
 - The Securities Appellate Tribunal has only one bench which sits in Mumbai.
-

86. Answer: b

Explanation:

The correct answer is Shashi Tharoor.

★ Key Points

- Sahitya Akademi Award 2019 in the English non-fiction category is won by **Sashi Tharoor for 'An era of Darkness' (Non-fiction) in English**.
- Nand Kishore Acharya for **'Chheelate Hue Apne Ko' (Poetry) in Hindi**.

★ Additional Information

- Sahitya Akademi Award is given in the field of Literature.

- This award is given annually by Sahitya Akademi (India's National Academy of Letters), New Delhi.
- It is given in 24 languages including Hindi and English.
- The award comprises a plaque and a cash prize of ₹ 1,00,000.
- The award's purpose is to recognize and promote excellence in Indian writing and also acknowledge new trends.
- Makhanlal Chaturvedi was the first recipient in the Hindi category in the year 1955.
- RK Narayan was the first recipient in the English category in the year 1960.

87. Answer: d

Explanation:

The correct answer is 74.04%.

★ **Key Points**

- The results of the 2011 census revealed that there has been an increase in literacy in the country .
 - The literacy rate in the country is 74.04 per cent, 82.14 for males and 65.46 for females.
- The literacy rate for females is 60.63% and for males is 80.9%.
- The literacy rate of females in rural areas has observed an improvement in literacy rate about 24% .
- The male and female literacy rate was higher in Kerala and lower in Bihar.
- The gap in literacy rates of females and males was low in Meghalaya, Kerala, and Mizoram.

★ **Additional Information**

- A census is an official data of the population.
- Indian census includes demographic, social, and economic data .
- It is held periodically after every tenth year.
- The first census took place in 1872 .

88. Answer: a

Explanation:

The correct answer is Tuberculosis.

★ Key Points

- **Tuberculosis** is caused by a bacterium called **Mycobacterium tuberculosis**, belonging to the **Mycobacteriaceae family** consisting of about 200 members.
- Tuberculosis is a **communicable disease**, it spreads from one person to another through contact.
- **Infectious diseases** are caused by pathogenic microorganisms, such as bacteria, viruses, worm or Protozoa, etc
 - They can be spread directly or indirectly, from one person to another through body secretions, insects, or other means of transportation.
- Zoonotic diseases are also infectious when transmitted from animals to humans.

★ Additional Information

- Some examples of infectious diseases and their agents are given below.

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Diseases	Caused by
Influenza	Virus
Smallpox	Virus
German measles	Virus
Tuberculosis	Bacteria
Whooping cough	Bacteria
Cholera	Bacteria
Typhoid fever	Bacteria
Athlete's foot	Fungi

89. Answer: b

Explanation:

The correct answer is Twelve members of the Rajya Sabha are nominated by the President.

★ Important Points

- Under Article 80 of the Constitution, the Council of States (Rajya Sabha) is composed of not more than 250 members, of whom 12 are nominated by the President of India from amongst persons who have special knowledge or practical experience in respect of such matters as literature, science, art, and social service.
- Article 80(1) in The Constitution Of India 1949, the Council of States shall consist of
 - twelve members to be nominated by the President in accordance with the provisions of the clause.
 - not more than two hundred and thirty-eight representatives of the States and of the Union territories.

★ Additional Information

- **104th Amendment Act,2020 :**
 - This Act ceased the reservation of seats for Anglo-Indians in the Lok Sabha and State Legislative assemblies and extended reservations for SCs and STs for up to ten years.
 - The amendment came into effect on January 25, 2020.

90. **Answer: d**

Explanation:

The correct answer is Plane mirror.

★ Key Points

- Lateral inversion is a phenomenon in which the right appears to be left and vice versa .
- Lateral inversion is a phenomenon shown by the plane mirror and also by the spherical mirrors .
- It occurs in the case of virtual images , as every virtual image is erect and laterally inverted.

★ Additional Information

The three most common mirror glass types are:

Plane Mirror	These are flat mirrors that reflect images in their normal proportions, reversed from left to right.
Concave Mirror	Concave mirrors are spherical mirrors that curve inward like a spoon. They create the illusion of largeness.
Convex Mirror	Convex mirrors are also spherical mirrors. They bulge out and distort the reflected image, making it smaller.

91. Answer: c

Explanation:

The correct answer is Jaw.

★ Important Points

- The strongest muscle (based on its weight) of the body is the masseter muscle which is located in the jaw.
- The muscle masseter is a facial muscle that plays a major role in the chewing of solid foods.
- It is a facial muscle that plays a major role in the chewing of solid foods.
- The muscle has a parallelogram-like shape, binding to the mandible (lower jawbone) and the cheekbone.
- The muscle's function during the entire muscle's bilateral contraction is to lift the mandible and raise the lower jaw.
- The elevation of the mandible happens when the jaws are closed.
- The masseter muscle is the most evident muscle of mastication since it is the most superficial and one of the strongest.

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92. Answer: d

Explanation:

The correct answer is Dadabhai Naoroji.

★ Key Points

- The East India Association was founded by Dadabhai Naoroji in 1866, in collaboration with Indians and retired British officials in London.
- It superseded the London Indian Society and was a platform for discussing matters and ideas about India, and to provide representation for Indians to the Government.

- The Association produced a journal (Journal of the East India Association) from its inception which included the papers that were delivered before their meetings.

★ Additional Information

- Dadabhai Naoroji , the “Grand Old Man of India”, was the first Indian member of the British parliament .
- In 1865 and 1866 , Naoroji helped found the London Indian Society and the East India Association respectively.
- He was Congress president thrice , in 1886 , 1893, and 1906 .
- Dadabhai Naoroji was among the key proponents of the ‘Drain Theory’ , disseminating it in his 1901 book ‘Poverty and Un-British Rule in India’.
- Dadabhai Naoroji was born to a Gujarati-speaking Parsi family in Bombay, British India.
- He formed the London India Society in 1865 to put forth views on Indian political, social and literary subjects.
- He was a founder-member of the Indian National Congress which he formed in 1885 along with Dinshaw Wacha and Allan Octavian Hume.
- He also founded the Rahnumae Mazdayasne Sabha in 1851 to revive the Zoroastrian religion.
- He died in 1917 in Bombay aged 91.

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93. Answer: a

Explanation:

The correct answer is Public Affairs.

- **Dr SC Jamir** from Nagaland received the Padma Bhushan Award 2020 for ‘Public Affairs’ in November 2021.

★ Additional Information

- Padma Bhushan is the third-highest civilian award in the country.

Name	Field	State/Country
Shri M. Mumtaz Ali (Sri M)	Others-Spiritualism	Kerala
Shri Syed Muazzem Ali (Posthumous)	Public Affairs	Bangladesh
Shri Muzaffar Hussain Baig	Public Affairs	Jammu and Kashmir
Shri Ajoy Chakravorty	Art	West Bengal
Shri Manoj Das	Literature and Education	Puducherry
Shri Balkrishna Doshi	Others-Architecture	Gujarat
Ms Krishnammal Jagannathan	Social Work	Tamil Nadu
Shri S. C. Jamir	Public Affairs	Nagaland
Shri Anil Prakash Joshi	Social Work	Uttarakhand
Dr Tsering Landol	Medicine	Ladakh
Shri Anand Mahindra	Trade and Industry	Maharashtra
Shri Neelakanta Ramakrishna Madhava Menon (Posthumous)	Public Affairs	Kerala
Shri Manohar Gopalkrishna Prabhu Parrikar (Posthumous)	Public Affairs	Goa
Prof. Jagdish Sheth	Literature and Education	USA
Ms P. V. Sindhu	Sports	Telangana
Shri Venu Srinivasan	Trade and Industry	Tamil Nadu

94. Answer: d

Explanation:

The correct answer is Varanasi.

★ Important Points

- The Kumbha Mela is held at the same site for 12 years but there are four major Kumbha sites where it is celebrated, so it is said that after 3 years a Kumbha Mela is celebrated .
- Ardha Kumbha is celebrated every 6 years whereas Mahakumbha is celebrated every 12 years.
- It is the major Hindu pilgrimage.
- It is celebrated on river banks
 - Prayagraj (river Ganges),
 - Haridwar (river Ganges),
 - Nashik (Godavari river), and
 - Ujjain (river Shipra).
- Hence **Varanasi is the correct answer.**

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95. Answer: d

Explanation:

The correct answer is Tadej Pogacar.

- **Tadej Pogačar** is a Slovenian cyclist who currently rides for **UCI WorldTeam UAE Team Emirates**.
- He is a winner of the **Tour de France in 2020**.

★ Additional Information

- The Tour De Francerace is related to the Cycling game .
- It is one of the oldest Races in the world .

- It is an annual Men's multiple stage Bicycle race and the participant has to do cycling around 3470 Km (approx) of Cycling which is primarily held in France and nearby countries.
- This race was started on 1st July 1903 .
- This race mainly consists of Twenty-one (21) day-long stages over the course of 23 days .
- Tour De France has been considered " The world's most prestigious and most difficult bicycle race ".
- The main objective to start this race was to " increase sales for the Newspaper".
- Tour De France is organized by the Amaury Sport Organisation.

96. Answer: b

Explanation:

The correct answer is Pavapuri.

★ Key Points

- The salvation place of Mahavir Ji, the originator of the Jain religion is Pavapuri.
- Pavapuri is located in the Nalanda district of Bihar .
- Pavapuri is a sacred place in Jainism as it was a cremation area of Mahavir Ji.
- The Jal Mandir meaning Water Temple , also known as Apapuri, in Pawapuri, meaning a town without sins, in the Indian state of Bihar.
 - It is a highly revered temple dedicated to Lord Mahavira, the 24th Tirthankara .

★ Additional Information

- Jainism came into prominence in the 6th century B.C ., when Lord Mahavira propagated the religion.
- There were 24 great teachers , the last of whom was Lord Mahavira.
 - These twenty-four teachers were called Tirthankaras-people who had attained all knowledge (Moksha) while living and preached it to the people.

- The first Tirthankara was Rishabhatha.
- The word ' Jain ' is derived from Jina or Jaina which means the ' Conqueror ' .

97. Answer: b

Explanation:

The correct answer is thirty.

★ Key Points

- The index titled SENSEX of BSE (erstwhile Bombay Stock Exchange) is an index of trading of **top 30 companies** in terms of their volume of trade share prices.
- The Bombay Stock Exchange (BSE) was established in the year 1875.
- It is the largest stock exchange in India and Asia as well.
- It was recognized as an official organization by the name 'The Native Share & Stock Brokers Association'.
- As per the Securities Contracts Regulation Act, BSE became the first stock exchange to be recognized by the Government of India in 1956.
- The headquarters of the Bombay Stock Exchange is in **Mumbai** .

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98. Answer: c

Explanation:

The correct answer is Ajatashatru.

★ Key Points

- The First Buddhist council was convened in the year following the Buddha's parinirvana (death), which is 543–542 BCE according to Theravada tradition in Rajgir (Rajgriha).
- It was organised by Ajathasatru.

★ Additional Information

Details of Buddhist Councils:

Buddhist Council	Time	Place	Ruler	President
First	483 BCE	Rajgriha	Ajatashatru	Mahakassappa
Second	383 BCE	Vaisali	Kalasoka	Sabbakami
Third	250 BCE	Patliputra	Ashoka	Mogaliputta Tissa
Fourth	1st Century CE	Kashmir	Kanishka	Vasumitra

99. Answer: d

Explanation:

The correct answer is Satpura.

★ Important Points

- The Deccan Plateau is a triangular shaped plateau and is bounded by the Satpura range in the North.

- The Deccan Plateau is a triangular landmass that lies to the south of the river Narmada .
- The plateau is bounded on the east and west by the Ghats , escarpments that meet at the plateau's southern tip.
- Its northern extremity is the Satpura Range.
- Its principal rivers— the Godavari, Krishna, and Kaveri (Cauvery) —flow from the Western Ghats eastward to the Bay of Bengal .
- The Satpura range flanks its broad base in the north, while the Mahadev, the Kaimur hills and the Maikal range form its eastern extensions.
- An extension of the Plateau is also visible in the northeast, locally known as the Meghalaya, Karbi-Anglong Plateau and North Cachar Hills .
- Dhupgarh (1,350 m) near Pachmarhi on Mahadev Hills is the highest peak of the Satpura Range.

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100. Answer: c

Explanation:

The correct answer is Protozoa.

★ Key Points

- Kala Azar , also known as Leishmaniasis, is a parasitic disease caused by protozoa.
- The causative agent of kala-azar is Leishmania donovani.
- Kala-azar is transmitted through the bite of an infected sandfly .
- Scientific name of sandfly is phlebotomus.
- Thereby the kala-azar is transmitted by phlebotomus.

★ Additional Information

- Some examples of infectious diseases and their agents are given below.

Diseases	Caused by
Influenza	Virus
Smallpox	Virus
German measles	Virus
Tuberculosis	Bacteria
Whooping cough	Bacteria
Cholera	Bacteria
Typhoid fever	Bacteria
Athlete's foot	Fungi