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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



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 14 July 2022 Shift 3)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

- 1.) A total of 90 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

General Intelligence & Reasoning

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

GRV : IUE :: XCB : ?

- a. ZFY
- b. YFX
- c. ZEY
- d. YEX

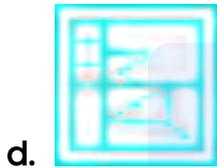
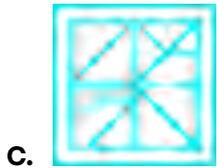
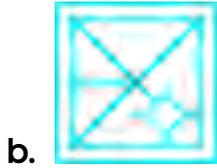
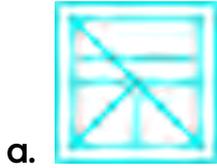
2. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. (+1, -0.25)

339 : 1022 :: 58 : 179 :: 25 : ?

- a. 80
- b. 70
- c. 75
- d. 125

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





4. Select the option in which the two numbers are related in the same way as $(+1, -0.25)$ are the numbers in the given number pairs.

23 : 529

26 : 676

a. 24 : 576

b. 16 : 196

c. 18 : 400

d. 22 : 444

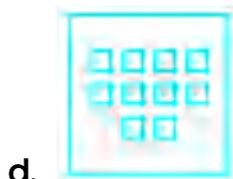
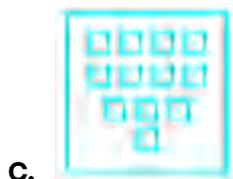
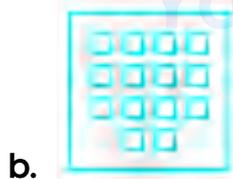
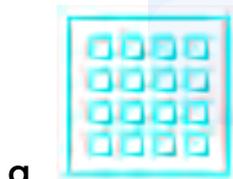
5. Select the option that is related to the third letter-cluster in the same way $(+1, -0.25)$ as the second letter-cluster is related to the first letter-cluster.

GRM : MGR :: PAR : ?

- a. RPA
- b. PRA
- c. ARP
- d. RAP

6. Select the figure among from the given options that can replace the question mark (?) in the following series.

(+1, -0.25)



7. In a certain code language, 'HOPE' is written as 'KRSH', and 'RAGF' is written as 'UDJI'. How will 'MNCK' be written in that language? **(+1, -0.25)**

- a. PQEM
- b. PQFN
- c. PQEN
- d. PQFM

8. Which two numbers (NOT digits) and two signs need to be interchanged to make the given equation correct? **(+1, -0.25)**

$$35 \div 4 \times 48 + 70 - 10 = 40$$

- a. 35 and 48, - and \div
- b. 70 and 10, + and -
- c. 4 and 48, \times and +
- d. 70 and 48, \div and \times

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

$$9 + 6 \div 4 - 5 + 3 = 10$$

- a. 6 and 10
- b. 10 and 5
- c. 9 and 3

d. 4 and 3

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

29 : 31 :: 19 : 23 :: 31 : ?

- a. 37
- b. 43
- c. 47
- d. 41

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



- a.

L	A
F	T
R	T
- b.

A	F
L	L
T	R



12. In a certain code language, 'PAINTS' is written as 'HGMRZK' and 'ROCKY' is written as 'BPXLI'. How will 'HUNTER' be written in that language? (+1, -0.25)

- a. IUGMSF
- b. IVGMFS
- c. IVGMES
- d. IUGMFS

13. Seven students Pawan, Aman, Raman, Sanam, Tanmay, Umang and Vikram took a series of tests. No two students got similar marks. Vikram scored just more than Pawan and Pawan scored just more than Aman. Raman and Tanmay scored the highest and the least marks but not necessarily in the same order. Umang's score was less than only Raman's score. Sanam's score was higher than only one person. Whose score was in between the scores of Pawan and Sanam? (+1, -0.25)

- a. Vikram
- b. Umang
- c. Raman
- d. Aman

14. Six boys G1, G2, G3, G4, G5 and G6 are sitting in a row facing towards the north (not necessarily in the same order). G4 is second to the right of G5. G2 is second to the left of G5. G3 is to the immediate left of G2. G6 is second to the right of G3. How many boys are sitting to the left of G6? (+1, -0.25)
- a. 2
 - b. 3
 - c. 0
 - d. 1

15. Select the option that is related to the fifth alphanumeric-cluster in the same way as the second alphanumeric-cluster is related to the first alphanumeric-cluster and the fourth alphanumeric-cluster is related to the third alphanumeric-cluster. (+1, -0.25)
- STV20 : WXZ24 :: ABD2 : EFH6 :: IJL10 : ?
- a. MNP14
 - b. MNO14
 - c. NOP15
 - d. NOQ15

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

Statements:

I. Some red are mouse.

II. No grey is mouse.

Conclusions:

I. All red are grey.

II. No mouse is grey.

- a. Only conclusion I follows
- b. None of the conclusions follow
- c. Both conclusions I and II follow
- d. Only conclusion II follows

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

48, 54, 45, 51, 42, 48, ?

- a. 37
- b. 33
- c. 39
- d. 35

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

Statements:

- I. Some cars are white.
- II. Some locks are white.

Conclusions:

- I. All white are locks.
 - II. No car is a lock.
 - III. All locks are cars.
- a. All the conclusions follow
 - b. Only conclusion III follows
 - c. Only conclusion II follows
 - d. None of the conclusions follow

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

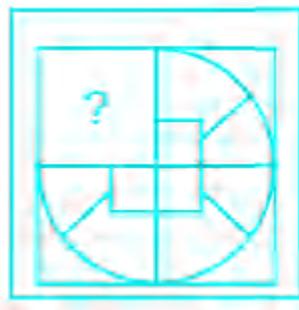
TRO, RQM, PPK, NOI, ?

- a. LNH
- b. LMG
- c. LMH
- d. LNG

20. Select the correct mirror image of the given figure when the mirror is placed at line AB as shown. (+1, -0.25)



21. Select the figure from the options that can replace the question mark (?) (+1, -0.25) and complete the pattern. (rotation is not allowed)





-
22. Six people Akshay, Anurag, Amit, Anubhav, Aryan and Ashish are sitting in a straight row facing North. Neither Akshay nor Amit are sitting at the corners. Amit and Anubhav are immediate neighbour of each other. Aryan is sitting second from the right corner. Only Akshay is sitting in between Anubhav and Ashish. Amit is sitting second to the left of Anurag. (+1, -0.25)

Who is sitting in between Anurag and Amit?

- a. Ashish
- b. Anubhav
- c. Akshay
- d. Aryan
-
23. In a certain code language, 'BAG' is coded as '71', and 'VICE' is coded as '69'. How will 'LIKE' be coded in that code language? (+1, -0.25)

- a. 71
- b. 76
- c. 68
- d. 65

24. In a certain code language, if 'owl' is known as 'peacock', 'peacock' is known as 'cuckoo', 'cuckoo' is known as 'pigeon', and 'pigeon' is known as 'sparrow', then what would be the name of the bird that sings well? (+1, -0.25)

- a. Pigeon
- b. peacock
- c. sparrow
- d. Cuckoo

25. Select the option that can replace the question mark (?) in the given figure and complete the pattern (rotation is not allowed). (+1, -0.25)



- a.



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Your Personal Exams Guide

Numerical Aptitude

26. Ram invested 45% of his salary in a scheme for 3 years which offers 10% per annum compound interest, compounded annually. If he receives Rs. 5,958 as total interest, then find Ram's salary? **(+1, -0.25)**
- a. Rs. 45,000
 - b. Rs. 50,000
 - c. Rs. 36,000
 - d. Rs. 40,000
-
27. The length of the longest diagonal that can be placed in a closed cube is $50\sqrt{3}$ cm. What is the total surface area of this cube? **(+1, -0.25)**
- a. 15000 cm²
 - b. 10000 cm²
 - c. 12000 cm²
 - d. 6000 cm²
-
28. Kanti and Jiya together can finish a work in 3 days. If Jiya alone can finish the work in 6 days, then in how many days can Kanti alone finish the work? **(+1, -0.25)**
- a. 4 days
 - b. 6 days
 - c. 10 days

d. 8 days

29. A train P travelling at a speed of 15 m/s is able to cross a platform of 200 meter length completely in 30 seconds. Approximately how long will it take train P to cross a man who is coming towards the train on his bike at a speed of 27 km/h? [Note: Ignore the length of the bike.] (+1, -0.25)

a. 15 sec

b. 11.1 sec

c. 16.7 sec

d. 18.3 sec

30. Arpit completes a journey in 10 hours. He covers half of the distance at 30 km/h, and the remaining half of the distance at 70 km/h. What is the length of the journey? (+1, -0.25)

a. 500 km

b. 320 km

c. 420 km

d. 210 km

31. A man divides a certain sum among his wife, his son and his daughter. His wife gets 45% of the sum, his son gets 30% of the sum, and his daughter gets the remaining Rs. 6,25,000. What amount did the wife get? (+1, -0.25)

a. Rs. 6,25,000

b. Rs. 7,50,000

c. Rs. 5,00,000

d. Rs. 11,25,000

32. What should come in place of the question mark (?) in the following equation? (+1, -0.25)

$$(?)^2 + ? + 12^3 = 13^2 + 22^2 + 2715$$

a. 38

b. 40

c. 34

d. 50

33. The average weight of nine persons is 25 kg. If a new person joins this group, then the average weight becomes 26 kg. What is the weight of the new person? (+1, -0.25)

a. 35 kg

b. 28 kg

c. 34 kg

d. 30 kg

34. Venus marked an article at 60% above its cost price. She sold it at a profit of 20%. Find the discount percentage offered on the article. (+1, -0.25)

a. 40%

- b. 15%
- c. 25%
- d. 75%

35. The number of adults who come only to walk in a park every day is 140. (+1, -0.25)
18% of the adults come only to accompany their children in the park. 54% of the adults come only to run in the park. What is the total number of adults who come to the park every day (if the adults come for no other activity other than for the given reasons)?

- a. 400
- b. 700
- c. 500
- d. 560

36. Ramesh incurred a loss of 10% after selling a phone. If he had sold the phone for Rs. 1,260 more, then he would have made a profit of 5%. What is the cost price of the phone? (+1, -0.25)

- a. Rs. 8,600
- b. Rs. 8,000
- c. Rs. 9,000
- d. Rs. 8,400

37. The sum of the lengths of the radius and the diameter of a circle is 84 cm. (+1, -0.25)
What is the difference between the lengths of the circumference and the

radius of this circle? [Use $\pi = \frac{22}{7}$]

- a. 156 cm
- b. 172 cm
- c. 148 cm
- d. 128 cm

38. The following table shows a survey conducted in the schools of a city. (+1, -0.25)
 This survey shows the type of activities teenagers (age 13 to 19 years) are involved in during their leisure time.

Activities	Distribution of leisure time
Cell phone	25%
Friends	30%
Net surfing	20%
Watching TV	20%
Playing sports	5%

If a teenager has 6 hours of leisure time in a day, then how much time does he/she spend daily on net surfing?

- a. 2 hours 30 minutes
- b. 2 hours 12 minutes
- c. 1 hour 15 minutes
- d. 1 hour 12 minutes

39. 470 liters of a mixture of milk and water contains 5% of water. A mischievous boy added some water in the mixture and now there is 6% water in the new mixture. Find the quantity of water added by the boy in the mixture. (+1, -0.25)
- a. 8 litres
 - b. 5 litres
 - c. 10 litres
 - d. 6 litres

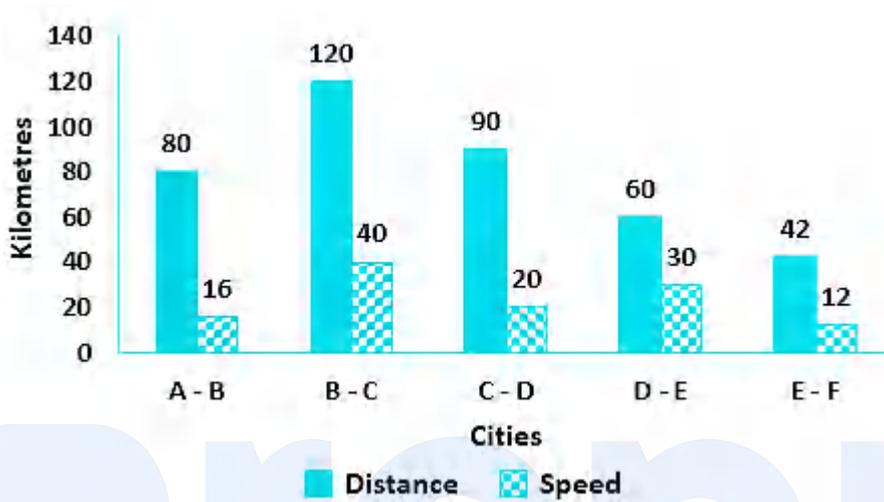
40. The value of 30% of $680 + 2\frac{3}{11}$ of 1331 is: (+1, -0.25)
- a. 3230
 - b. 3229
 - c. 3231
 - d. 3225

41. Three numbers, a, b and c are said to be in continued proportion if $a : b :: b : c$. What number must be added to each of the numbers 1, 7 and 25 so that the resulting sums, in that order, may be in continued proportion? (+1, -0.25)
- a. 2
 - b. 4
 - c. 6
 - d. 5

42. Study the given bar-graph and answer the question the follows.

(+1, -0.25)

The bar-graph shows the distance (in km) between two cities and speeds (in km/h) of a person to cover the respective distances.



What is the approximate average speed of the person while travelling from city A to city F?

- a. 28.55 km/h
- b. 19.47 km/h
- c. 21.78 km/h
- d. 23.91 km/h

43. Anusha purchased a television and a camera for Rs. 12,000 and Rs. 8,000, respectively. She sold the television at a loss of 10 per cent, and the camera at a profit of 12 per cent. What was her overall loss/profit?

(+1, -0.25)

- a. Rs. 240 profit
- b. Rs. 450 loss

- c. Rs. 240 loss
- d. Rs. 450 profit

44. The larger diagonal of a rhombus is 150% of its smaller diagonal, and its area is 432 cm^2 . Find the length (in cm) of the side of the rhombus? (+1, -0.25)

- a. $2\sqrt{13}$
- b. $8\sqrt{13}$
- c. $6\sqrt{13}$
- d. $4\sqrt{13}$

45. There are two numbers such that the first number is 5 times of the second number. If the difference between the first and the second numbers is 120, then what is the average of these two numbers? (+1, -0.25)

- a. 90
- b. 80
- c. 95
- d. 85

46. A alone can do a piece of work in 10 days. B alone can do the same work in 12 days. They work on alternate days starting with A. In how many days will they complete $\frac{3}{4}$ of the total work? (+1, -0.25)

- a. $\frac{47}{3}$ days
- b. $\frac{50}{3}$ days

c. $\frac{53}{6}$ days

d. $\frac{49}{6}$ days

47. Raja borrowed Rs. 15,000 on simple interest at the rate of 13% per annum and lent it on compound interest at the rate of 15% per annum, compounded annually. What is Raja's gain in two years? (+1, -0.25)

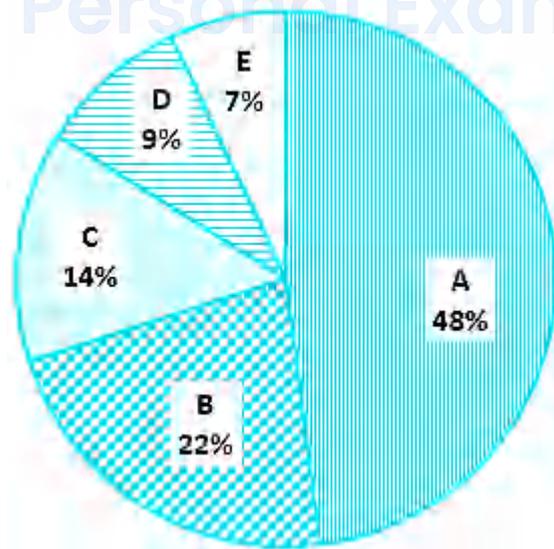
a. Rs. 937.50

b. Rs. 1,125.00

c. Rs. 1,080.00

d. Rs. 865.50

48. The given pie chart represents the distribution of the percentage of sales of a particular brand of bike from five showrooms, A, B, C, D and E, during 2021. The total number of bikes sold during that year from the five showrooms is 6000. (+1, -0.25)



What is the total number of bikes sold from showrooms C and D?

- a. 1640
 - b. 1280
 - c. 1550
 - d. 1380
-

49. A household of three humans has cats and dogs in the ratio 1 : 2. If the total number of legs in the household is 42, what is the total number of cats in the household? (+1, -0.25)

- a. 12
 - b. 6
 - c. 9
 - d. 3
-

50. What is the least number which, when divided by 60, 84, and 96, leaves remainders of 28, 52, and 64, respectively? (+1, -0.25)

- a. 3318
- b. 3360
- c. 3392
- d. 3328

General English

51. Select the option that can be used as a one-word substitute for the given group of words. (+1, -0.25)

An imaginary name assumed by an author

- a. Nomenclature
- b. Almanac
- c. Pseudonym
- d. Platonic

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

Hideous

- a. Disgusting
- b. Shocking
- c. Attractive
- d. Ghastly

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

If he had not dropped out, / he will most certainly have completed / his education by 2023.

- a. his education by 2023

- b. No error
 - c. If he had not dropped out
 - d. he will most certainly have completed
-

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

In the heat of the moment

- a. Saying or doing something without thinking due to anger
 - b. Keep something away from everyone
 - c. To share information that was previously concealed
 - d. In a confused or befuddled state of mind
-

55. Select the sentence in which all words are correctly spelt. (+1, -0.25)

- a. With him he had one of his cheif councellors.
 - b. Work is due to comence in the coming year.
 - c. Melt the white and dark chocolate in separate bowls.
 - d. We did it becuase we felt it our duty to encorage him.
-

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

We _____ learn to meet adversity gracefully.

- a. have
- b. ought

- c. had
 - d. must
-

57. Select the most appropriate meaning of the underlined idiom in the given sentence. (+1, -0.25)

I accidentally let the cat out of the bag about your promotion.

- a. To state the wrong facts
 - b. To reveal a secret
 - c. To say something unrealistic
 - d. To discourage someone
-

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

He went to bed early to get up on time to attend his morning lecture.

- a. get up over time
 - b. No improvement required
 - c. get up for time
 - d. get up at time
-

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

He sounded like he were to going cry.

- a. No improvement required
 - b. were going to
 - c. going to
 - d. was going to
-

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

Educators must roll up their sleeves and do a more best job of teaching critical thinking.

- a. Educators must roll up their sleeves
 - b. No error
 - c. and do a more best job
 - d. of teaching critical thinking
-

61. Select the correctly spelt word. (+1, -0.25)

- a. Rudimentry
 - b. Concious
 - c. Coalece
 - d. Reliant
-

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

Grammar is just a natural function of children's brains, and they apply it to whatever they find.

- a. No improvement required
- b. they applied them to
- c. they apply them for
- d. they apply that in

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

Can you please _____ this sauce over the pasta?

- a. pore
- b. power
- c. pour
- d. purr

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

We deplore the use of _____ against innocent people.

- a. reduction
- b. violence

- c. gentleness
 - d. humour
-

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

August

- a. Imminent
 - b. Eminent
 - c. Permanent
 - d. Illicit
-

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

The panel will / investigate the allegations / owing to the concerned officials.

- a. investigate the allegations
 - b. owing to the concerned officials
 - c. The panel will
 - d. No error
-

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

A _____ body will fight off the illness naturally without any medicine.

- a. happy
 - b. healthy
 - c. flabby
 - d. fresh
-

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

Mandate

- a. Question
 - b. Request
 - c. Enquire
 - d. Command
-

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

I do not feel it is a laudable plan.

- a. noticeable
 - b. precious
 - c. commendable
 - d. disrespected
-

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

India continues to _____ the highest amount of e-waste, more than China, the US, Japan and Germany.

- a. generate
- b. remake
- c. stake
- d. select

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

Words convey meaning because they are used in human activities in different forms. Different words may (1) _____ the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) _____ reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.

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

- a. meaningful
- b. meaning
- c. mean
- d. meant

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

Words convey meaning because they are used in human activities in different forms. Different words may (1) _____ the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) _____ reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.

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

- a. commend
- b. depend
- c. comprehend
- d. amend

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

Words convey meaning because they are used in human activities in different forms. Different words may (1) _____ the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) _____ reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in

turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.

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

- a. retrospectively
- b. secretly
- c. effectively
- d. lately

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

Words convey meaning because they are used in human activities in different forms. Different words may (1) _____ the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) _____ reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.

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

- a. essential
- b. unimportant
- c. auspicious

d. silent

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

Words convey meaning because they are used in human activities in different forms. Different words may (1) _____ the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) _____ reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.

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

- a. have
- b. should
- c. has
- d. had

General Awareness

76. Sangrai is a folk dance of which state of India? (+1, -0.25)
- a. Tripura
 - b. Goa
 - c. Bihar
 - d. Karnataka
-

77. India's southern neighbours across the sea consist of _____ island countries. (+1, -0.25)
- a. three
 - b. two
 - c. four
 - d. five
-

78. Tipu Sultan became the ruler of Mysore in _____. (+1, -0.25)
- a. 1765
 - b. 1782
 - c. 1775
 - d. 1762
-

79. 'Courage and Conviction : An Autobiography' is the autobiography of which of the following persons? (+1, -0.25)

- a. Yogesh Kumar Joshi
 - b. Dalbir Singh Suhag
 - c. Manoj Mukund Naravane
 - d. VK Singh
-

80. Which of the following festivals is associated with the Kamakhya temple of Guwahati? (+1, -0.25)

- a. Ambubachi Festival
 - b. Mando Festival
 - c. Majuli Festival
 - d. Sunburn festival
-

81. Which of the following states has bi-cameral Legislature as of March 2022? (+1, -0.25)

- a. Odisha
 - b. Gujarat
 - c. Karnataka
 - d. Kerala
-

82. Which of the following states launched the 'Mukhyamantri Ration Aapke Dwar Yojana' in October 2021? (+1, -0.25)
- a. Punjab
 - b. Uttarakhand
 - c. Jharkhand
 - d. Madhya Pradesh
-

83. What is a measure of the moisture present in air called? (+1, -0.25)
- a. Opacity
 - b. Abrasion
 - c. Precipitation
 - d. Humidity
-

84. Which Article of the Constitution of India under the Directive Principles of State Policy talks about organisation of village panchayats? (+1, -0.25)
- a. Article 40
 - b. Article 48
 - c. Article 43
 - d. Article 39A
-

85. The first census of Independent India was conducted in _____. (+1, -0.25)
-

- a. 1956
 - b. 1953
 - c. 1951
 - d. 1948
-

86. Articles _____ in Part VI of the Constitution deal with the components of state legislature. (+1, -0.25)

- a. 168 to 212
 - b. 198 to 220
 - c. 112 to 175
 - d. 134 to 198
-

87. In which language did Banabhatta compose Harshacharita? (+1, -0.25)

- a. Prakrit
 - b. Sanskrit
 - c. Pali
 - d. Tamil
-

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

I. Converting plant and animal waste including that from kitchen into manure is called composting.

II. The method of making compost from kitchen garbage using redworms is called vermicomposting.

- a. Only I is correct.
- b. Neither I nor II is correct.
- c. Both I and II are correct.
- d. Only II is correct.

89. TH Vinayakram is associated with which musical instrument? (+1, -0.25)

- a. Dholak
- b. Sarod
- c. Tabla
- d. Ghatam

90. Which of the following is NOT a tributary of the Indus river? (+1, -0.25)

- a. Son
- b. Kabul
- c. Gilgit
- d. Shyok

91. _____ won the ICC Women's Cricket World Cup 2022. (+1, -0.25)

- a. Australia
- b. England

c. New Zealand

d. India

92. Who said, 'One caste, one religion, one God for humankind'? (+1, -0.25)

a. Jyotirao Phule

b. Mahatma Gandhi

c. Shree Narayana Guru

d. Dr. Rajendra Prasad

93. The North-South corridor of the Golden Quadrilateral Super Highways links Srinagar and ----- (+1, -0.25)

a. Kannur

b. Kanyakumari

c. Kanchipuram

d. Kozhikode

94. Which of the following is the correct chronological order of early Turkish rulers who ruled over Delhi from the year 1206 to 1290? (+1, -0.25)

a. Shamsuddin Illutmish, Raziyya, Qutubuddin Aybak

b. Qutubuddin Aybak, Raziyya, Shamsuddin Illutmish

c. Qutubuddin Aybak, Shamsuddin Illutmish, Raziyya

d. Raziyya, Shamsuddin Illtutmish, Qutubuddin Aybak

95. Which cell organelle performs the principal function of packaging materials? (+1, -0.25)

- a. Vacuoles
 - b. Endoplasmic reticulum
 - c. Lysosome
 - d. Golgi apparatus
-

96. Pushkar lake is situated in which district of Rajasthan? (+1, -0.25)

- a. Jaipur
 - b. Ajmer
 - c. Bikaner
 - d. Alwar
-

97. Who among the following won the first ever individual Olympic medal for India? (+1, -0.25)

- a. Rajyavardhan Rathore
 - b. PT Usha
 - c. Khashaba Jadhav
 - d. Abhinav Bindra
-

98. In February 2022, beverage maker Coca-Cola signed _____ as the brand ambassador for Thums Up. (+1, -0.25)

- a. Mahendra Singh Dhoni
- b. Ranveer Singh
- c. Akshay Kumar
- d. Shah Rukh Khan

99. 'Padma Vibhushan' winner Pandit Birju Maharaj was a famous _____ dancer. (+1, -0.25)

- a. Odissi
- b. Kathak
- c. Bharatanatyam
- d. Manipuri

100. What chemical element does 'H' stand for in the science periodic table? (+1, -0.25)

- a. Helium
- b. Hydrogen
- c. Holmium
- d. Mercury

Answers

1. Answer: a

Explanation:

The logic followed here is:

1st alphabet + 2.

2nd alphabet + 3.

3rd alphabet getting reversed.

Given code:- GRV : IUE :: XCB : ?

Alphabet	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	23	25	21	23	22	21	20	19	18	17	16	15	14
Alphabet	Z	X	V	W	U	T	S	R	Q	P	O	N	M

First pair:

GRV : IUE

$$G(7 + 2) = I(9)$$

$$R(18 + 3) = U(21)$$

$$V(22) = E(5), \text{ Opposite letter}$$

Similarly,

Second pair

XCB : ?

$$X(24 + 2) = Z(26)$$

$$C(3 + 3) = F(6)$$

$B(2) = Y(25)$, Opposite letter

Therefore, '?' will be replaced by 'ZFY'

Hence, the correct answer is "Option (1)".

2. Answer: a

Explanation:

The logic followed here is:

$$(\text{First number} \times 3) + 5 = \text{Second number}$$

Given: $339 : 1022 :: 58 : 179 :: 25 : ?$

First pair:

$$(339 \times 3) + 5 = 1017 + 5 = 1022$$

Second pair:

$$(58 \times 3) + 5 = 174 + 5 = 179$$

Third pair:

$$(25 \times 3) + 5 = 75 + 5 = \underline{80}$$

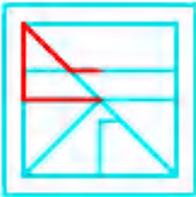
Therefore, '?' will be replaced by '80'

Hence, the correct answer is "Option (1)".

3. Answer: c

Explanation:

The image embedded in the given figure is as shown below:

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

Hence, "Option 3" is the correct answer.

4. Answer: a

Explanation:

The logic followed here is:

Square of the first number : Next number

23 : 529

$$(23)^2 = 529$$

for,

26 : 676

$$(26)^2 = 676$$

Option(1)

$$\Rightarrow (24)^2 = 576$$

$$\Rightarrow 576 = 576$$

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

Option(2)

$$\Rightarrow (16)^2 = 196$$

$$\Rightarrow 256 = 196$$

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

Option(3)

$$\Rightarrow (18)^2 = 324$$

$$\Rightarrow 324 = 400$$

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

Option(4)

$$\Rightarrow (22)^2 = 484$$

$$\Rightarrow 484 = 444$$

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

prepp

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Therefore, only 24 : 576 is showing the same pattern as given in the question.

Hence, the correct answer is "Option (1)".

5. Answer: a

Explanation:

The logic followed here is:

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

for, GRM : MGR



Similarly, for PAR:



Therefore, 'PAR' is related to 'RPA'

Hence, the correct answer is "Option (1)".

6. Answer: c

Explanation:

The logic followed here is:

For every **next box** , there is an **addition of two more squares** .

First box = 4 squares,

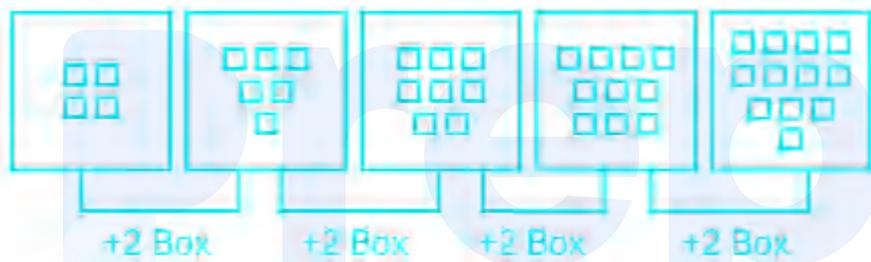
Second box = 6 squares,

Third box = 8 squares,

Fourth box = 10 squares,

So, the fifth box will have 12 squares.

Only option (3) has a box having 12 squares.



Therefore, '?' will be replaced by the image of option (3).

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

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7. Answer: b

Explanation:

The logic followed here is: Alphabets + 3.

Alphabetic	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	23	24	25	26	27	28	29	30	31	32	33	34	35
Alphabetic	X	Y	Z	A	B	C	D	E	F	G	H	I	J

'HOPE' is written as 'KRSH'

$$H(8 + 3) = K(11)$$

$$O(15 + 3) = R(18)$$

$$P(16 + 3) = S(19)$$

$$E(5 + 3) = H(8)$$

for,

$$\text{'RAGF'} = \text{'UDJI'}$$

$$R(18 + 3) = U(21)$$

$$A(1 + 3) = D(4)$$

$$G(7 + 3) = J(10)$$

$$F(6 + 3) = I(9)$$

Similarly, for MNCK

$$\text{'MNCK'} = \text{'?'}$$

$$M(13 + 3) = P(16)$$

$$N(14 + 3) = Q(17)$$

$$C(3 + 3) = F(6)$$

$$K(11 + 3) = N(14)$$

Therefore, '?' will be replaced by 'PQFN'

Hence, the correct answer is "Option (2)".

8. Answer: d

Explanation:

Bodmas Table:

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

Given Equation :- $35 \div 4 \times 48 + 70 - 10 = 40$

Option(1) 35 and 48, - and ÷

After Interchange:

$$\Rightarrow 48 - 4 \times 35 + 70 \div 10 = 40$$

$$\Rightarrow 48 - 4 \times 35 + 7 = 40$$

$$\Rightarrow 48 - 140 + 7 = 40$$

$$\Rightarrow 55 - 140 = 40$$

$$\Rightarrow -95 \neq 40$$

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

Option(2) 70 and 10, + and -

After Interchange:

$$\Rightarrow 35 \div 4 \times 48 - 10 + 70 = 40$$

$$\Rightarrow 8.75 \times 48 - 10 + 70 = 40$$

$$\Rightarrow 420 - 10 + 70 = 40$$

$$\Rightarrow 490 - 10 = 40$$

$$\Rightarrow 480 \neq 40$$

⇒ LHS ≠ RHS

Option(3) 4 and 48, × and +

After Interchange:

$$\Rightarrow \underline{35 \div 48} + 4 \times 70 - 10 = 40$$

$$\Rightarrow 0.791 + \underline{4 \times 70} - 10 = 40$$

$$\Rightarrow \underline{0.791 + 280} - 10 = 40$$

$$\Rightarrow \underline{280.791} - 10 = 40$$

$$\Rightarrow 270.791 \neq 40$$

⇒ LHS ≠ RHS

Option(4) 70 and 48, ÷ and ×

After Interchange:

$$\Rightarrow 35 \times \underline{4 \div 70} + 48 - 10 = 40$$

$$\Rightarrow \underline{35 \times 0.0571} + 48 - 10 = 40$$

$$\Rightarrow \underline{2 + 48} - 10 = 40$$

$$\Rightarrow \underline{50 - 10} = 40$$

$$\Rightarrow 40 = 40$$

⇒ LHS = RHS

Therefore, interchanging 70 and 48, ÷ and × satisfies the given equation.

Hence, the correct answer is "Option (4)".

9. Answer: d

Explanation:

BODMAS Table:

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

Given Equation:- $9 + 6 \div 4 - 5 + 3 = 10$

Option(1) 6 and 10

After replacing the numbers:

$$\Rightarrow 9 + \underline{10} \div \underline{4} - 5 + 3 = 6$$

$$\Rightarrow \underline{9 + 2.5} - 5 + \underline{3} = 6$$

$$\Rightarrow \underline{14.5} - 5 = 6$$

$$\Rightarrow 9.5 \neq 6$$

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

option(2) 10 and 5

After replacing the numbers:

$$\Rightarrow 9 + \underline{6} \div \underline{4} - 10 + 3 = 5$$

$$\Rightarrow \underline{4 + 1.5} - 10 + \underline{3} = 5$$

$$\Rightarrow \underline{8.5} - 10 = 5$$

$$\Rightarrow -2.5 \neq 5$$

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

Option(3) 9 and 3

After replacing the numbers:

$$\Rightarrow 3 + \underline{6 \div 4} - 5 + 9 = 10$$

$$\Rightarrow \underline{3 + 1.5} - 5 + \underline{9} = 10$$

$$\Rightarrow \underline{13.5} - 5 = 10$$

$$\Rightarrow 7.5 \neq 10$$

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

Option(4) 4 and 3

After replacing the numbers:

$$\Rightarrow 9 + \underline{6 \div 3} - 5 + 4 = 10$$

$$\Rightarrow \underline{9 + 2} - 5 + \underline{4} = 10$$

$$\Rightarrow \underline{15} - 5 = 10$$

$$\Rightarrow \underline{10} = 10$$

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

Therefore, the interchanging 4 and 3 will satisfies the equation.

Hence, the correct answer is "Option (4)".

10. Answer: a

Explanation:

The logic followed here is: Prime number : Next Prime number

Here,

29 : 31

29 and 31 are the consecutive Prime numbers.

for, 19 : 23

19 and 23 are the consecutive Prime numbers.

Similarly, for 31 : 37

31 and next prime number 37 are the consecutive Prime numbers.

Hence, the correct answer is "37".

★ Alternate Method

Here,

29 : 31

$$\Rightarrow 29 + 2 = 31$$

for, 19 : 23

$$\Rightarrow 19 + 2 + 2 = 23$$

Similarly,

31 : ?

$$31 + 2 + 2 + 2 = \underline{37}$$

Therefore, '?' will be replaced by '37'

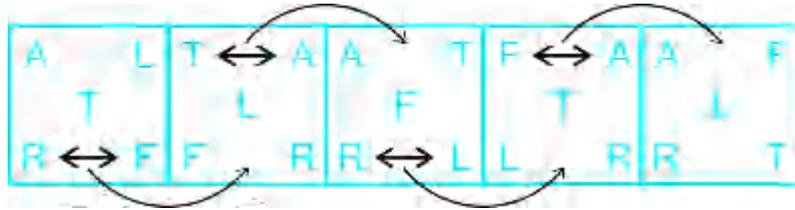
Hence, the correct answer is "Option (1)".

11. Answer: c

Explanation:

The logic followed here is:

Step I: The letters on the Top and Bottom are shifted to their places in the next box.



Step II: The letters in the top/bottom along with the middle are shifted to their positions in triangle form in alternate boxes .



Thus, the next image will be:



Hence, the correct answer is 'option 3'.

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12. Answer: b

Explanation:

Alphabets and their positional values:

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

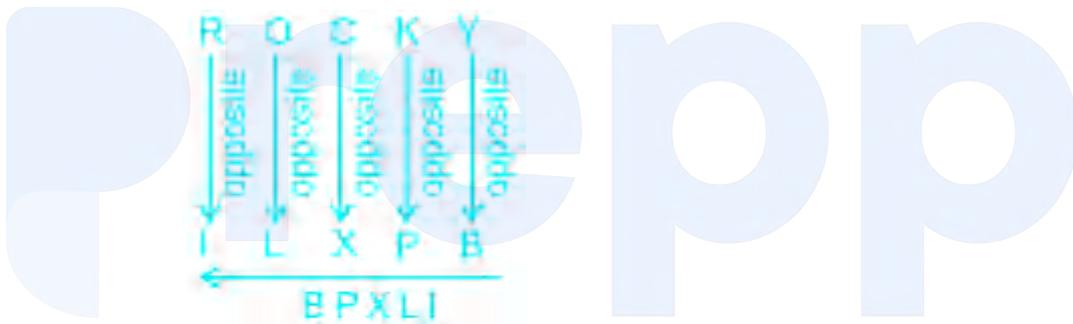
The pattern followed in the given codes is:

- All the alphabets are coded as opposite alphabets.
- The code is written in reversed direction.

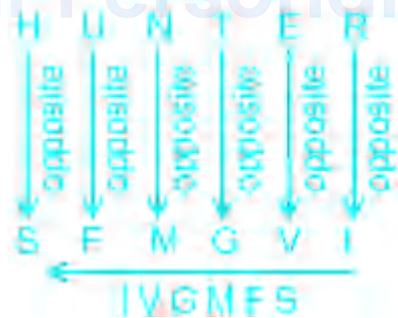
Here, 'PAINTS' is written as 'HGMRZK':



'ROCKY' is written as 'BPXLI'



Similarly, for 'HUNTER'



So, 'HUNTER' is written as 'IVGMFS':

Hence the correct answer is "Option 2".

13. Answer: d

Explanation:

According to the question,

1. Highest marks is scored by Raman and least marks scored by Tanmay.

Raman > _____ > _____ > _____ > _____ > _____ > Tanmay

2. Umang's score was less than only Raman's score.

Raman > Umang > _____ > _____ > _____ > _____ > Tanmay

3. Sanam scored was higher than only one person.

Raman > Umang > _____ > _____ > _____ > Sanam > Tanmay

4. Pawan scored just more than Aman.

5. Vikram scored just more than Pawan.

Vikram > Pawan > Aman.

So, the order from highest marks to lowest will be:

Raman > Umang > Vikram > Pawan > Aman > Sanam > Tanmay

Therefore, 'Aman' has scored between Pawan and Sanam.

Hence, the correct answer is "Option (4)".

14. Answer: a

Explanation:

Given: Six boys G1, G2, G3, G4, G5 and G6.

1) G4 is second to the right of G5.

2) G2 is second to the left of G5.

3) G3 is to the immediate left of G2.



4) G6 is second to the right of G3.



And, G1 will sit on the remaining place.



Here, there are 2 boys sitting to the left of G6

Hence, the correct answer is 'option 1'.

15. Answer: a

Explanation:

The logic followed here is: **Letter/Number + 4**

STV20 : WXZ24 :: ABD2 : EFH6 :: IJL10 : ?

First pair

STV20 : WXZ24

$$S(19 + 4) = W(23)$$

$$T(20 + 4) = X(24)$$

$$V(22 + 4) = Z(26)$$

$$20 + 4 = 24$$

Second pair

ABD2 : EFH6

$$A(1 + 4) = E(5)$$

$$B(2 + 4) = F(6)$$

$$D(4 + 4) = H(8)$$

$$2 + 4 = 6$$

Similarly,

Third pair

IJL10 : ?

$$I(9 + 4) = M(13)$$

$$J(10 + 4) = N(14)$$

$$L(12 + 4) = P(16)$$

$$10 + 4 = 14$$

Therefore, '?' will be replaced by 'MNPI4'

Hence, the correct answer is "Option (1)".

16. Answer: d

Explanation:

Statements:

I. Some red are mouse.

II. No grey is mouse.

According to the given statements, the least possible Venn diagram is:



Now, checking the conclusions:

I. All red are grey → False (Because some red are mouse and no grey is mouse. So those red that is mouse will also not grey).

II. No mouse is grey → **True** (Because no grey is mouse so no mouse is grey is true).

Thus, Only conclusion II follows

Hence, the correct answer is 'option 4'.

17. **Answer: c**

Explanation:

The logic followed here is:



Therefore, '?' will be replaced by '39'

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

18. **Answer: d**

Explanation:

Statements:

I. Some cars are white.

II. Some locks are white.

According to the given statements the least possible Venn diagram s



Now, Let's check all the conclusions:

I. All white are locks - False (Because Some locks are white, so All white are locks can be possible, not definite).

II. No car is a lock - False (Because no definite relation given between them, so it can be possible only).

III. All locks are cars - False (Because no definite relation given between them, so it can be possible only).

So, None of the conclusions follow.

Hence, the correct answer is 'option 4'.

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19. Answer: d

Explanation:

The alphabets and their positions are:

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

The logic here is:



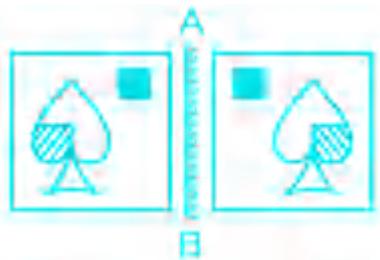
Thus, the next letter cluster will be 'LNG'.

Hence, the correct answer is 'option 4'.

20. Answer: a

Explanation:

The correct mirror image of the given figure when the mirror is held at the right side is:



Hence, the correct answer is "Option (1),

★ Additional Information

In Mirror image left side and right side changed vice-versa where top and bottom remain same.

Reflection of an object into the water is its water image. It appears by inverting an object vertically i.e. upside down.

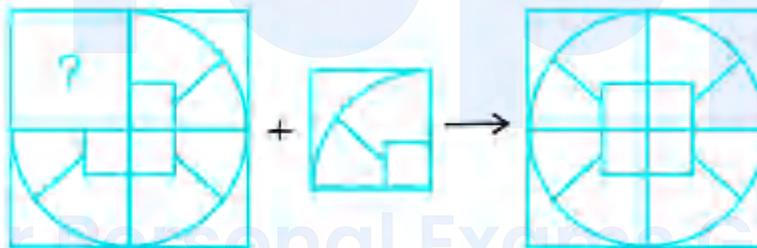
The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom of the figure.

Water image is just a reflection where top and bottom part of the images changed where left and right side of the image remain same.

21. Answer: a

Explanation:

The logic followed here is:



From the above, figure, it is clear that only option (1) completes the given figure.

Hence, the correct answer is "Option (1)".

22. Answer: d

Explanation:

According to the givens statements we have:

Six people Akshay, Anurag, Amit, Anubhav, Aryan, and Ashish are sitting in a straight row facing North.

1) Aryan is sitting second from the right corner.



2) Neither Akshay nor Amit are sitting at the corners.

3) Amit is sitting second to the left of Anurag.



4) Amit and Anubhav are immediate neighbour of each other.

5) Only Akshay is sitting in between Anubhav and Ashish.



Thus, **Aryan** is sitting between Anurag and Amit.

Hence, the correct answer is 'option 4'.

23. Answer: a

Explanation:

The logic followed here is:

Alphabet	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
Alphabet	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Sum of the reverse positional value.

Now,

BAG → YZT(reversed)

$$Y(25) + Z(26) + T(20) = 71.$$

for, VICE:

VICE → ERXV(reversed)

$$E(5) + R(18) + X(24) + V(22) = 69.$$

Similarly, for LIKE:

LIKE → ORPV (reversed)

$$O(15) + R(18) + P(16) + V(22) = 71$$

So, LIKE will be coded as 71.

hence, the correct answer is "Option (1)".

24. Answer: a

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Explanation:

The logic followed here is:

Bird	Called
Owl	Peacock
Peacock	Cuckoo
Cuckoo	Pigeon
Pigeon	Sparrow

The bird that sings well is 'cuckoo',

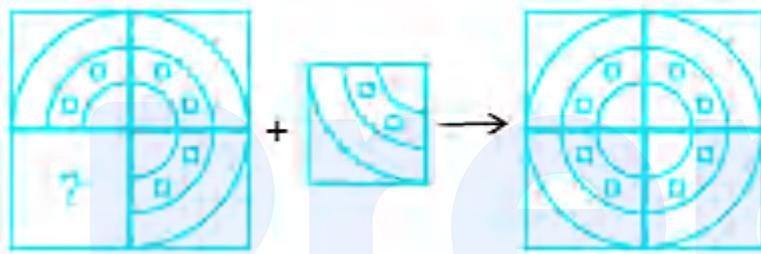
and in the given code language the 'cuckoo' is known as 'pigeon'

Hence, the correct answer is "Option (1)".

25. Answer: b

Explanation:

The correct pattern is:



Hence, the correct answer is "Option (2)".

26. Answer: d

Explanation:

Given:

Principal = P

Rate = 10%

Amount = Rs. 5,958

Time = 3 years

Formula used:

$$A = P(1 + r/100)^t$$

where, A = Amount, P = Principal, r = Rate of interest , t = time

Calculation:

$$A = P(1 + r/100)^t$$

$$\Rightarrow P + 5958 = P(1 + \frac{10}{100})^3$$

$$\Rightarrow P + 5958 = P(\frac{11}{10})^3$$

$$\Rightarrow P + 5958 = P(\frac{1331}{1000})$$

$$\Rightarrow 5958 = \frac{331}{1000} P$$

$$\Rightarrow P = 5958 \times \frac{1000}{331}$$

$$\Rightarrow P = 18000$$

Now, according to question,

$$45\% \text{ of Salary} = 18000$$

$$\Rightarrow \text{Salary} = 18000/0.45 = 40,000$$

\therefore The required value of Salary is Rs. 40,000.

27. Answer: a

Explanation:

Given:

The longest diagonal is $50\sqrt{3}$ cm.

Concept used:

$$\text{Diagonal} = a\sqrt{3}$$

The total surface area of cube = $6a^2$

Calculations:

According to the question,

$$a\sqrt{3} = 50\sqrt{3}$$

$$\Rightarrow a = 50$$

Hence, the Side of the cube = 50 cm

$$\text{Now, Total surface area of cube} = 6a^2 = 6 \times (50)^2 = 15000\text{cm}^2$$

Hence, The Required value of the total surface area is 15,000 cm².

28. Answer: b

Explanation:

Given:

Kanti and Jiya complete a work in = 3 days

Jiya complete the work in = 6 days

Calculation:

$$\text{One day's work of (Kanti + Jiya)} = 1/3$$

$$\text{One day's work of Jiya} = 1/6$$

According to the question:

$$\text{Kanti's one day's work} = 1/3 - 1/6 = (2-1)/6 = 1/6$$

∴ Kanti can complete the work in 6 days.

29. Answer: b

Explanation:

Given:

Train P travelling at a speed of 15m/s covers 200m in 30 seconds.

Speed of a man on a bike = 27 km/h.

Calculations:

Let the length of the train = x.

Now, According to the question:

Distance = Speed \times Time

$$(200 + x) = 15 \times 30$$

$$\Rightarrow 200 + x = 450$$

$$\Rightarrow x = 250 \text{ m}$$

Hence, the length of the train is 250 m.

Now, the speed of a man on the bike is given 27 km/h

$$= 27 \times \frac{5}{18} \text{ m/s}$$

$$= 7.5 \text{ m/s}$$

So, Time taken by train to pass the man is

= Distance / Speed (Here distance is the length of the train and speed = relative speed)

$$= \frac{250}{15+7.5}$$

$$= \frac{250}{22.5}$$

= 11.1 seconds

Hence, The time taken by the train to pass the man is 11.1 seconds.

30. Answer: c

Explanation:

Given:

Total time taken = 10 hours

The car travels half of the distance with a speed of 30 km/hr and other half at a speed of 70 km/hr

Formula used:

Time = Distance/Speed

Calculation:

Let the total distance of the journey be $2x$ km

Time taken to travel first half of the journey = $x/30$ hours

Time taken to complete other half = $x/70$ hours

Total time = $x/30 + x/70$ hours

$$\Rightarrow 10 = (7x + 3x)/210$$

$$\Rightarrow 10x = 2100$$

$$\Rightarrow x = 210$$

Total distance = $2x = 2 \times 210$ km = 420 km

\therefore Total distance of the journey is 420 km.

31. Answer: d

Explanation:

Given:

Wife got 45% of total amount,

Son got 30% of total amount

And daughter got the remaining Rs.6,25,000

Calculations:

Let total amount be x .

According to the question,

Daughter got $\{100 - (45 + 30)\}$ % of total amount, but she got Rs.6,25,000

So, $\{100 - (45 + 30)\}$ % of $x = 6,25,000$

$\Rightarrow (100 - 75)\%$ of $(x) = 6,25,000$

$\Rightarrow 25\%$ of $x = 6,25,000$

$\Rightarrow 0.25x = 6,25,000$

$\Rightarrow x = \text{Rs. } 25,00,000$

Hence, total amount is Rs.25,00,000

So, wife got

$= 45\%$ of 25,00,000

$= 0.45 \times 25,00,000$

$= \text{Rs.}11,25,000$

Hence, Wife got Rs.11,25,000.

32. Answer: b

Explanation:

Given:

$$(?)^2 + ? + 123 = 132 + 222 + 2715$$

Calculations:

Let the ? be x.

Now, according to question,

$$(x)^2 + x + 123 = 132 + 222 + 2715$$

$$\Rightarrow x^2 + x + 1728 = 169 + 484 + 2715$$

$$\Rightarrow x^2 + x + 1728 - (169 + 484 + 2715) = 0$$

$$\Rightarrow x^2 + x - 1640 = 0$$

$$\Rightarrow x^2 + 41x - 40x - 1640 = 0$$

$$\Rightarrow x(x + 41) - 40(x + 41) = 0$$

$$\Rightarrow (x + 41)(x - 40) = 0$$

Hence, The value of x is 40 and - 41, but only option available is 40.

Hence, The required value is 40.

33. Answer: a

Explanation:

Given :

The average weight of 9 persons is 25 kg.

The average weight becomes 26 kg when a new member joins.

Formula used :

Average = Sum of all observation values/Number of observations

Calculations :

According to the question

Total weight of the 9 people = $25 \times 9 = 225$ kg

Weight of the 10 people including new person = $26 \times 10 = 260$ kg

Weight of the New person = $260 - 225$

$\Rightarrow 35$ kg

\therefore The weight of the new person is 35 Kg.

34. Answer: c

Explanation:

Given:

Marked price (MP) = 160% of Cost price (C.P.)

Profit = 20%

Formula used:

Cost price $\times (100 + \text{Profit percentage})/100 = \text{Selling price}$

Marked Price $\times (100 - \text{Discount percentage})/100 = \text{Selling price}$

Calculation:

Let the cost price be 100 and the discount percentage be D

So, Marked price = 160 and Selling price = 120

According to the Question,

$$160 \times (100 - D)/100 = 120$$

$$\Rightarrow (100 - D) = 3 \times 100/4$$

$$\Rightarrow 100 - D = 75$$

$$\Rightarrow D = 25$$

\therefore Discount percentage = 25%

35. Answer: c

Explanation:

Given:

The number of adults who comes to walk in park is 140.

18% of adults come to accompany their children.

54% of adults who comes only to run in the park.

Calculations:

According to the question,

$$\{100 - (18 + 54)\}\% \text{ of Total adults} = 140$$

$$\Rightarrow (100 - 72)\% \text{ of Total adults} = 140$$

$$\Rightarrow 28\% \text{ of Total adults} = 140$$

$$\Rightarrow 0.28 \times \text{Total adults} = 140$$

$$\Rightarrow \text{Total adults} = 140/0.28 = 500$$

\therefore The total number of adults is 500.

36. Answer: d

Explanation:

Given:

Ramesh lost 10% in selling a phone.

If he had sold the phone for Rs. 1260 more then the he would have made a profit of 5%.

Calculations:

Let the cost price (C.P.) of the phone be Rs. x .

Selling price (S.P.) of the phone = $x - (10\% \text{ of } x) = x - 0.1x = 0.9x$ (\because S.P. = C.P. - Loss)

If S.P. is Rs. 1260 more: -

Gain% = 5%

$$\Rightarrow \text{Gain} = 5\% \text{ of } x = 0.05x$$

S.P. of the phone = $0.9x + 1260$

$$\Rightarrow x + 0.05x = 0.9x + 1260 \quad (\because \text{S.P.} = \text{C.P.} + \text{Gain})$$

$$\Rightarrow 0.15x = 1260$$

$$\Rightarrow x = \text{Rs. } 8400$$

Hence, $x = \text{Rs. } 8,400$

\therefore The Cost price of phone is Rs.8,400.

37. Answer: c

Explanation:

Given:

$$\text{Radius} + \text{Diameter} = 84 \text{ cm}$$

Formula used:

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

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

Calculations:

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

Now, according to question,

$$R + 2R = 84$$

$$\Rightarrow 3R = 84$$

$$\Rightarrow R = 28$$

$$\text{So, The circumference} = 2\pi r = 2 \times \frac{22}{7} \times 28 = 176 \text{ cm}$$

Now, difference between Circumference and radius is

$$= 176 - 28$$

$$= 148 \text{ cm}$$

Hence, the required difference is 148 cm.

38. Answer: d

Explanation:

Given:

The table showing a survey showing the type of activities teenagers (age 13 to 19 years) are involved in during leisure time.

Activities	Distribution of leisure time
Cell phone	25%
Friends	30%
Net surfing	20%
Watching TV	20%
Playing sports	5%

Teenagers have 6 hours leisure time a day.

Calculations:

Time spent on Net surfing

$$= 20\% \text{ of } 6 \text{ hours}$$

$$= 0.20 \times 6$$

$$= 1.2 \text{ hours}$$

$$= 1 \text{ hour} + 0.2 \times 60 \text{ minutes}$$

$$= 1 \text{ hour} + 12 \text{ minutes}$$

Hence, Leisure Time spent on Net surfing is 1 hour and 12 minutes.

39. Answer: b

Explanation:

Given:

A mixture of 470 liters of milk and water contains 5% water.

Calculation:

Let x liter water be added

5% of 470 liter = 23.5 liter water

Now, according to question,

$$\frac{23.5+x}{470+x} \times 100 = 6 \quad (\because x \text{ liter water will also be added in mixture})$$

$$\Rightarrow 2350 + 100x = 2820 + 6x$$

$$\Rightarrow 94x = 470$$

$$\Rightarrow x = 5 \text{ liter}$$

\therefore 5 liter water must be added to make water 6% in the new mixture.

40. Answer: b

Explanation:

Calculations:

$$30\% \text{ of } 680 + 2\frac{3}{11} \text{ of } 1331$$

$$= 30\% \times 680 + 2\frac{3}{11} \times 1331$$

$$= 0.30 \times 680 + \frac{25}{11} \text{ of } 1331$$

$$= 204 + 3025$$

$$= 3229$$

Hence, The Required simplified value is 3229.

41. Answer: a

Explanation:

Given:

1,7 and 25 should be in a continued proportion

Concept:

Continued proportion means the ratio between the first and the second is equal to the ratio between the second and the third.

Calculation:

let x is added to each number

$$(1 + x)/(7 + x) = (7 + x)/(25 + x)$$

$$\Rightarrow (1 + x) (25 + x) = (7 + x) (7 + x)$$

$$\Rightarrow 25 + 25x + x + x^2 = 49 + 14x + x^2$$

$$\Rightarrow 12x = 24$$

$$\Rightarrow x = 2$$

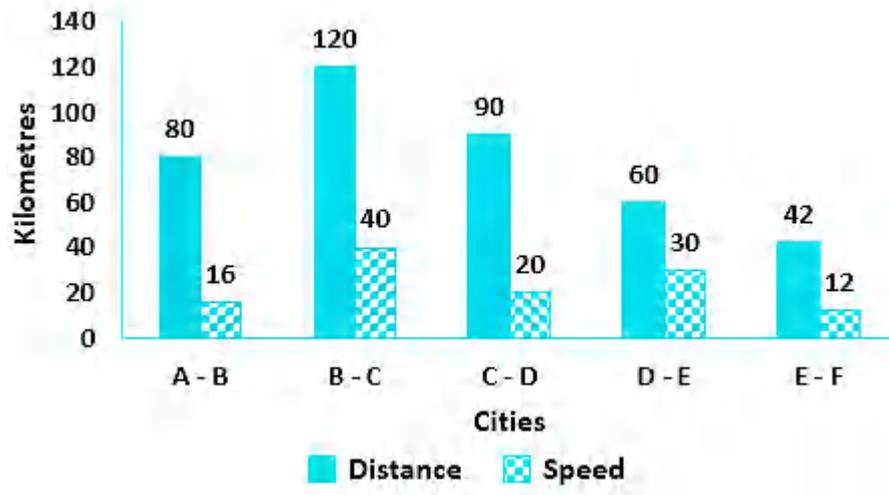
\therefore 2 must be added to each of the numbers 1, 7 and 25 so that the resulting numbers may be in a continued proportion.

42. Answer: c

Explanation:

Given:

The bar graph representing the distance between two cities and the speed of person to cover the distance.



Formula used:

$$\text{Time} = \text{Distance} / \text{speed}$$

Calculations:

Time taken in covering the distance A-B is

$$= 80 / 16 = 5 \text{ h}$$

Time taken in covering the distance B-C is

$$= 120 / 40 = 3 \text{ h}$$

Time taken in covering the distance C-D is

$$= 90 / 20 = 4.5 \text{ h}$$

Time taken in covering the distance D-E is

$$= 60 / 30 = 2 \text{ h}$$

Time taken in covering the distance E-F is

$$= 42 / 12 = 3.5 \text{ h}$$

Now, Total distance from A to F = $80 + 120 + 90 + 60 + 42 = 392$ Km

Total time taken to cover A-F = $5 + 3 + 4.5 + 2 + 3.5 = 18$ h

So, Average Speed

= Total distance/ Total time taken

= $392/18$

= $21.77..... \sim 21.78$ Km/h

Hence, The average speed is 21.78 Km/h.

43. Answer: c

Explanation:

Given:

CP of Television = Rs.12,000

Loss in Tv = 10 %

CP of Camera = Rs.8,000

Profit in Camera = 12 %

Formula used:

$$SP = \frac{100 - \text{loss}\%}{100} \times CP = \frac{100 + \text{profit}\%}{100} \times CP$$

Calculations:

According to question,

$$SP(\text{television}) = \frac{100 - 10}{100} \times 12,000 = 0.9 \times 12000 = \text{Rs.}10,800$$

$$SP(\text{Camera}) = \frac{100 + 12}{100} \times 8,000 = 1.12 \times 8000 = \text{Rs.}8,960$$

$$\text{Total CP} = 12,000 + 8,000 = \text{Rs.}20,000$$

$$\text{Total SP} = 10,800 + 8,960 = \text{Rs.}19,760$$

So, Total Loss is

$$= \text{Total SP} - \text{Total CP}$$

$$= 20,000 - 19,760$$

$$= \text{Rs.}240$$

\therefore Total loss is Rs.240.

44. Answer: c

Explanation:

Given:

Larger diagonal of a rhombus is 150% of its smaller diagonal

$$\text{Area} = 432 \text{ cm}^2$$

Formula used:

$$\text{Area of rhombus} = \left(\frac{1}{2}\right) \times \text{first diagonal} \times \text{second diagonal}$$

$$\text{Side}^2 = \text{Half of first diagonal}^2 + \text{Half of second diagonal}^2$$

Calculations:

Let the length of smaller diagonal of rhombus = 'l' cm

So, the length of larger diagonal of rhombus = 150% of l = $\left(\frac{3l}{2}\right)$ cm

From the question:

$$\left(\frac{1}{2}\right) \times l \times \left(\frac{3l}{2}\right) = 432$$

$$\Rightarrow 3l^2 = 1728$$

$$\Rightarrow l = 24$$

The length of smaller diagonal = 24 cm

The length of larger diagonal = $24 \times (3/2) = 36$ cm

So,

$$\text{Side of rhombus} = \sqrt{[(36/2)^2 + (24/2)^2]}$$

$$= \sqrt{[324 + 144]}$$

$$= 6\sqrt{13} \text{ cm}$$

\therefore The side of the rhombus is $6\sqrt{13}$ cm.

45. Answer: a

Explanation:

Given:

First number is 5 times the second number,

Difference between first and second number is 120.

Calculations:

Let, '5X' be the Second number and 'X' be the First number.

Now, it is given that the difference between them is 120.

$$\Rightarrow X - Y = 120$$

$$\Rightarrow 5X - X = 120$$

$$\Rightarrow X = 30$$

Hence, Numbers are 150 and 30.

Now, Average = $(150 + 30)/2 = 180/2 = 90$

Hence, the required value is 90 .

46. Answer: d

Explanation:

Given:

Time taken by A to do a work = 10 days

Time taken by B to do the same work = 12 days

Calculations:

Total work

= LCM(10, 12)

= 60

Efficiency of A = $60/10 = 6$

Efficiency of B

= $60/12 = 5$

So, work done in 2 alternate days = $6 + 5 = 11$

Now, $3/4$ of total work = $60 \times 3/4$

= 45

Now, Time taken to complete 44 work = $44/11 = 4$ pair = $4 \times 2 = 8$ days

And the next day A wil work again to complete the remaining 1unit work = $1/6$

Hence Total time = $8 + \frac{1}{6}$

Hence, The time taken by A and B working alternatively to complete the work is $\frac{49}{6}$ days.

47. Answer: a

Explanation:

Given:

Principal = Rs. 15,000

Rate of simple interest = 13%

Time = 2 years

Rate for Compound interest = 15%

Formula Used:

Amount = Principal $\times (1 + \text{Rate}/100)$ Time

Calculation:

Simple interest = $\frac{PRT}{100} = \frac{(15000 \times 13 \times 2)}{100} = 3,900$

Amount to be returned = Rs. $15000(1 + \frac{15}{100})^2 = 15000 \times \frac{529}{400}$

\Rightarrow Rs.19,837.50

Interest = Amount - Principal = $19,837.50 - 15,000 = 4,837.50$

Gain = CI - SI = $4,837.50 - 3,900 = \text{Rs.}937.50$

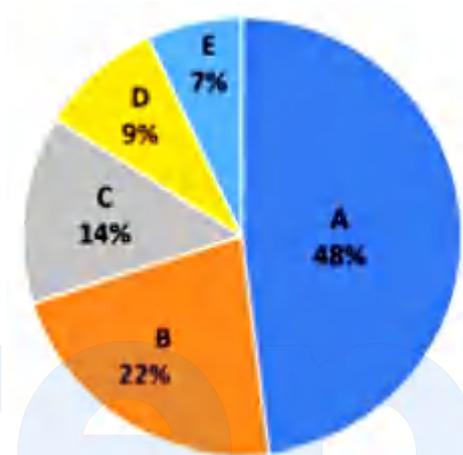
\therefore The gain is Rs. 937.50.

48. Answer: d

Explanation:

Given:

The pie chart represents the distribution of the percentage of sales of a particular brand of bike from five showrooms, A, B, C, D and E, during 2021. The total number of bikes sold during that year from the five showrooms is 6000.



Calculations:

Number of bikes sold in showroom C

$$= 14\% \text{ of } 6000$$

$$= 0.14 \times 6000$$

$$= 840$$

Number of bikes sold in showroom D

$$= 9\% \text{ of } 6000$$

$$= 0.09 \times 6000$$

$$= 540$$

$$\text{Total Number of bikes sold in showroom C and D is } = 840 + 540 = 1380$$

Hence, the required value is 1380.

49. Answer: d

Explanation:

Given:

A household has 3 humans and the cat and the dogs are in ratio 1 : 2,

The total number of legs is 42.

Calculations:

Let the number of cats be x and dogs be $2x$.

Then, According to question,

$$\text{Humans}(2) + \text{Cats}(4) + \text{Dogs}(4) = 42$$

$$\Rightarrow 3(2) + x(4) + 2x(4) = 42$$

$$\Rightarrow 6 + 4x + 8x = 42$$

$$\Rightarrow 12x = 36$$

$$\Rightarrow x = 3$$

Hence, The total number of cats is $x = 3$.

50. Answer: d

Explanation:

Given:

The least number which, when divided by 60, 84, and 96, leaves remainders of 28, 52, and 64, respectively.

Calculations:

Here, $(60 - 28) = 32$,

$(84 - 52) = 32$ and

$(96 - 64) = 32$

The required number = $(\text{LCM of } 60, 84, 96) - 32 = 3360 - 32 = 3328$

∴ The least number, which when divided by 60, 84 and 96 leaves 28, 52 and 64 as remainders respectively is 3328 .

51. Answer: c

Explanation:

The correct answer is: **Pseudonym**

★ Key Points

- **Pseudonym:** A fictitious name, especially one used by an author. (एक काल्पनिक नाम, विशेष रूप से एक लेखक द्वारा प्रयोग किया जाता है)
- So, it is clear that 'Pseudonym' can be used as a one-word substitute for 'An imaginary name assumed by an author'

Therefore, the correct answer is option 3 .

★ Additional Information

- **Nomenclature:** The devising or choosing of names for things, especially in a science or other discipline. (विशेष रूप से विज्ञान या अन्य अनुशासन में चीजों के लिए नामों का चयन या चयन)
- **Almanac:** An annual calendar containing important dates and statistical information such as astronomical data and tide tables. (एक वार्षिक कैलेंडर जिसमें महत्वपूर्ण तिथियां और सांख्यिकीय जानकारी जैसे खगोलीय डेटा और ज्वार तालिकाएं होती हैं)
- **Platonic:** A relationship that is purely spiritual and not physical. (एक रिश्ता जो विशुद्ध रूप से आध्यात्मिक है और शारीरिक नहीं)

52. Answer: c

Explanation:

The correct answer is: **Attractive**

★ Key Points

- **Hideous:** Offensive, extremely ugly, or shocking. (आपत्तिजनक, अत्यंत बदसूरत या चौंकाने वाला)
- Let us look at the meaning of the given options.
 - **Disgusting:** Extremely unpleasant or unacceptable. (अत्यंत अप्रिय या अस्वीकार्य)
 - **Shocking:** Causing indignation or disgust; offensive. (आक्रोश या घृणा पैदा करना; अप्रिय)
 - **Attractive:** Arousing interest or pleasure: charming. (रुचि या आनंद जगाना: आकर्षक)
 - **Ghastly:** Horrifying and repellent in appearance or aspect. (दिखने या पहलू में भयावह और विकर्षक)
- From the meaning of the given words, it is clear that the most appropriate antonym of the word 'Hideous' is 'Attractive'.

Therefore, the correct answer is option 3 .

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53. Answer: d

Explanation:

The erroneous part of the sentence is: **he will most certainly have completed**

★ Key Points

- Replace the modal verb " **will** " with " **would** " to correct the sentence.
- The sentence is written in the past perfect tense.
- We can use the **past perfect** to show the order of two past events.

- The **past perfect** shows the **earlier action** and the **past simple** shows the **later action** .
- In this sentence, the first action is If he had not dropped out and the second action is then he would have completed his education.
- So " **would** " should be used here.
- Therefore, the correct answer is **option 4** , which contains the error in it.

Corrected sentence: If he had not dropped out, he will most certainly have completed his education by 2023.

54. Answer: a

Explanation:

The correct answer is: **Saying or doing something without thinking due to anger**

★ **Key Points**

- The idiom "**In the heat of the moment**" means to say or do something without thinking because of anger or excitement. (क्रोध या उत्तेजना के कारण बिना सोचे-समझे कुछ कहना या करना)
 - Example - *The argument got pretty nasty, and, in the heat of the moment, we both said some things we really regret.*
- So, it is clear that the most appropriate meaning of the given idiom "**In the heat of the moment**" is "**Saying or doing something without thinking due to anger**"
- Hence, the correct answer is option 1.

55. Answer: c

Explanation:

The correct answer is: **Melt the white and dark chocolate in separate bowls.**

★ Key Points

- **Option 1** : The erroneous spelling is "cheif counsellors " and the correct spelling should be " chief counsellors ".
- **Option 2** : The erroneous spelling is " comence " and the correct spelling should be " commence ".
- **Option 4** : The erroneous spellings are " becuase " and " encourage ." The correct spelling should be " because " and " encourage ."
- So, the only sentence in which all words are correctly spelt is written in option 3.

Thus, **option 3** is the correct answer.

56. Answer: d

Explanation:

The correct answer is: **must**

★ Key Points

- Let us look at the correct usage of the given verbs.
 - **Have** : Used with the pronouns I, you, we, and they for the present tense.
 - **Ought** : Indicates correctness or duty, often when criticizing the actions of another.
 - **Had** : The past tense and past participle of 'have' and used in the past tense.
 - **Must** : Used to express obligation, give orders and give advice
- The implied meaning of the sentence is: Adversity should teach us how to handle it graciously.
- So, as per the use of the verbs, the best fit for this sentence is " **must** ." as the sentence is talking about a general need.

Thus, **option 4** is the correct answer.

Complete sentence: *We must learn to meet adversity gracefully.*

57. Answer: b

Explanation:

The correct answer is: **To reveal a secret**

★ Key Points

- The idiom "**let the cat out of the bag**" means to allow a secret to be known, usually without intending to. (एक रहस्य को जानने की अनुमति देने के लिए, आमतौर पर बिना इरादे के)
 - Example - *I was trying to keep the party a secret, but Rahul went and let the cat out of the bag.*
- So, it is clear that the most appropriate meaning of the given idiom "**let the cat out of the bag**" is "**To reveal a secret**"
- Hence, the correct answer is option 2.

58. Answer: b

Explanation:

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

★ Key Points

- **Get up** : To rise from bed after sleeping.
- ' **On time** ' means at the arranged or correct time.
- The preposition " **on** " is always used for a general time.
- So, the sentence is both grammatically and conceptually correct.

Therefore, the correct answer is **option 2** .

59. Answer: d

Explanation:

The correct answer is: **was going to**

★ Key Points

- Replace " **were to going** " with " **was going to** " in order to correct the sentence.
- The singular verb " **was** " is used with the third-person singular pronoun **he** and **she** .
- If we use the preposition " **to** " before the verb, the have to use " **to+infinitive** " which is the " **to+ base form of the verb** ."
- But if we use "was to go cry" the sentence becomes meaningless.
- So, " **was going to cry** " should be used here to give the sentence a proper meaning.

Therefore, the correct answer is **option 4**.

Corrected sentence:*He sounded like he was going to cry.*

60. Answer: c

Explanation:

The erroneous part of the sentence is: **and do a more best job**

★ Key Points

- Replace " **more best** " with " **better** " to correct the sentence.
- **More** means a greater or additional amount or degree of something. It is a comparative degree which is used to compare two or more things.
- **Best** is the superlative adjective of " **good** ."
- So, we cannot use a comparative and a superlative simultaneously in a single sentence.
- The sentence is talking about how educators can do more in their respective sectors in comparison to their present form.
- So, the best word choice should be " **better** ."

- **Better** is the comparative degree of "good" which means more desirable, satisfactory, or effective.

Therefore, the correct answer is **option 3** , which contains an error in it.

Corrected sentence: *Educators must roll up their sleeves and do a better job of teaching critical thinking.*

61. Answer: d

Explanation:

The correctly spelt word is: **Reliant**

★ Key Points

- **Reliant** : D ependent on someone or something. (भरोसा करने वाला)

Thus, the correct answer is **option 4** which is correctly spelt.

★ Additional Information

- **Rudimentry** : The correct spelling should be '**Rudimentary**' which means only basic, and not deep or detailed. (बुनियादी)
- **Concious** : The correct spelling should be '**Conscious**' which means aware of and responding to one's surroundings. (जागरूक)
- **Coalece** : The correct spelling should be '**Coalesce**' which means come together to form one mass or whole. (संगठित होना)

62. Answer: a

Explanation:

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

★ Key Points

- In this sentence " **children's** " is a plural noun and for a plural noun the plural pronoun " **they** " is used.
- **Grammar** is a non-living thing so the pronoun " **it** " is used.
- The verb " **apply** " always takes the preposition " **to** " after it.
- **Apply to** means to be applicable or relevant.
- Therefore, the sentence is both grammatically and conceptually correct.

Thus, the correct answer is **option 1. (No improvement required)**

63. Answer: c

Explanation:

The correct answer is: **pour**

★ Key Points

- Let us look at the meaning of the given words.
 - **Pore** : A very small hole in the skin of people or other animals, or a similar hole on the surface of plants or rocks.
 - **Power** : The ability or capacity to do something or act in a particular way.
 - **Pour** : To make a liquid or other substance flow from a container in a continuous stream.
 - **Purr** : To make a soft, low, continuous sound.
- So, as per the meaning of the given words " **pour** " is the most appropriate option.

Therefore, the correct answer is **option 3** .

Complete sentence:*Can you please pour this sauce over the pasta?*

64. Answer: b

Explanation:

The correct answer is: **violence**

★ Key Points

- Let us look at the meaning of the given words.
 - **Reduction:** The action or fact of making something smaller or less in amount, degree, or size. (कमी)
 - **Violence:** Behaviour involving physical force intended to hurt, damage, or kill someone or something. (हिंसा)
 - **Gentleness:** The quality of being kind, tender, or mild-mannered. (सज्जनता)
 - **Humour:** The quality of being amusing or comic, especially as expressed in literature or speech. (हास्य)
- So, as per the meaning of the given words "**violence**" is the most appropriate option.

Therefore, the correct answer is option 2 .

Complete sentence: *We deplore the use of violence against innocent people.*

65. Answer: b

Explanation:

The correct answer is: **Eminent**

★ Key Points

- **August** means having great importance and respect in society. (समाज में बहुत महत्व और सम्मान है)
- Marked option **Eminent** means famous and respected within a particular sphere. (प्रख्यात)
- It is clear that '**August**' and '**Eminent**' are similar in meaning.
- Therefore the correct answer is option 2.

★ Additional Information

- **Imminent:** Likely to happen very soon. (आसन्न)

- **Permanent:** Lasting or intended to last or remain unchanged indefinitely. (स्थायी)
 - **Illicit:** Forbidden by law, rules, or custom. (अवैध)
-

66. Answer: b

Explanation:

The erroneous part of the sentence is: **owing to the concerned officials**

★ Key Points

- The error lies in the choice of verb and preposition.
- Replace " **owing to** " with " **made by** " to correct the sentence.
- **Owing to** means because of something.
- So, using "owing to" is making the sentence meaningless and complicated.
- The correct verb and preposition " **made by** " should be used here to make the sentence a meaningful one.
- **Made by** means produced in the stated way or place.
- The implied meaning of the sentence is: The panel will look into the arguments presented by the authorities in question.

Therefore, the correct answer is **option 2** which contains the error in it.

Corrected sentence: *The panel will investigate the allegations made by the concerned officials.*

67. Answer: b

Explanation:

The correct answer is: **healthy**

★ Key Points

- Let us look at the meaning of the given words.

- **Happy** : Feeling or showing pleasure or contentment. (प्रसन्न)
 - **Healthy** : In a good physical or mental condition; in good health. (सेहतमंद)
 - **Flabby** : Lacking strength, vitality, or effectiveness. (कोमल)
 - **Fresh** : Something as new or recently made, as being not spoiled or not preserved. (ताज़ा)
- As we know health is related to the body, therefore as per the meaning of the given words " **healthy** " is the most appropriate option.
 - Thus, the correct answer is **option 2** .

Complete sentence: A *healthy* body will fight off the illness naturally without any medicine.

68. Answer: d

Explanation:

The correct answer is: **Mandate**

★ Key Points

- **Mandate** means an official order or commission to do something. (शासनादेश)
- Marked option **Command** means to give an authoritative or peremptory order. (आदेश)
- It is clear that 'Mandate' and 'Command' are similar in meaning.
- Therefore the correct answer is option 4.

★ Additional Information

- **Question:** A matter requiring resolution or discussion. (सवाल)
- **Request:** An act of asking politely or formally for something. (अनुरोध)
- **Enquire:** Ask for information from someone. (पूछताछ)

69. Answer: d

Explanation:

The correct answer is: **Disrespected**

★ Key Points

- **Laudable** : An action, idea, or aim deserving of praise and commendation. (प्रशंसनीय)
- Let us look at the meaning of the given options.
 - **Noticeable** : Easily seen or noticed; clear or apparent. (ध्यान देने योग्य)
 - **Precious** : Something of great value; not to be wasted or treated carelessly. (कीमती)
 - **Commendable** : Worthy of high praise. (सराहनीय)
 - **Disrespected** : Show a lack of respect for; insult. (अपमान)
- From the meaning of the given words, it is clear that the most appropriate antonym of the word ' **Laudable** ' is ' **Disrespected**'.

Therefore, the correct answer is option 4 .

70. Answer: a

Explanation:

The correct answer is: **generate**

★ Key Points

- Let us look at the meaning of the given words.
 - **Generate** : To cause something to exist. (बनाना)
 - **Remake** : To make something again or differently. (पुनर्निर्माण)
 - **Stake** : A share or a financial involvement in something such as a business. (शेयर)
 - **Select** : Carefully choose as being the best or most suitable. (चुनना)
- The implied meaning of the sentence is: India continues to produce more electronic garbage than China, the US, Japan, and Germany combined.

- So, as per the meaning of the given words " **generate** " should be used here.
- Therefore, the correct answer is **option 1** .

Complete sentence:*India continues to generate the highest amount of e-waste, more than China, the US, Japan and Germany.*

71. Answer: c

Explanation:

The correct answer is: **mean**

★ Key Points

- Let's look at the meaning of the given words.
 - **Meaningful (adjective)**: Having a meaning or purpose.
 - **Meaning (noun)**: Represents something's intent or purpose.
 - **Mean (verb)**: Intend to convey or refer to a particular thing; signify.
 - **Meant**: The past tense and past participle of the 'mean.'
- **Verbs** are the action words in a sentence that describe what the subject is doing. Here, " **Different words** " are performing the action that is giving the meaning of different languages.
- So, as per the meaning of the given words "**mean**" is the most appropriate option.
- The implied meaning of the sentence is: Various terms in different languages may indicate the same thing, which is referred to as 'family resemblance.'
- Therefore, the correct answer is option 3 .

Complete passage: *Words convey meaning because they are used in human activities in different forms. Different words may (1) mean the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) _____ reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider*

audience, then you will (5) _____ to reach out to the target audience in a language they understand.

72. Answer: c

Explanation:

The correct answer is: comprehend

★ Key Points

- Let's look at the meaning of the given words.
 - **Commend** : Praise formally or officially. (सराहना करना)
 - **Depend** : Be controlled or determined by. (निर्भर करना)
 - **Comprehend** : Grasp mentally; understand. (समझना)
 - **Amend** : To change the words of something written. (सुधार करना)
- So, as per the meaning of the given words " comprehend " is the most appropriate option.
- The implied meaning of the sentence is: Languages assist us in understanding reality and communicating it to others.
- Therefore, the correct answer is option 3 .

Complete passage: *Words convey meaning because they are used in human activities in different forms. Different words may (1) mean the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) comprehend reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) _____ express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.*

73. Answer: c

Explanation:

The correct answer is: **Effectively**

★ Key Points

- Let's look at the meaning of the given words.
 - **Retrospectively**: With consideration of past events or situations. (पूर्वव्यापी)
 - **Secretly**: In a secret way; without others knowing. (गुप्त रूप से)
 - **Effectively**: In such a manner as to achieve a desired result. (प्रभावी रूप से)
 - **Lately**: Recently; not long ago. (हाल ही में)
- So, as per the meaning of the given words "**effectively**" is the most appropriate option.
- The implied meaning of the sentence is: There are tens of thousands of languages around the globe, and they all allow us to communicate properly, which brings significance to our lives.
- Therefore, the correct answer is option 3 .

Complete passage: *Words convey meaning because they are used in human activities in different forms. Different words may (1) mean the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) comprehend reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) effectively express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) _____ for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.*

74. Answer: a

Explanation:

The correct answer is: **Essential**

★ Key Points

- Let's look at the meaning of the given words.
 - **Essential:** Absolutely necessary; extremely important. (आवश्यक)
 - **Unimportant:** Lacking in importance or significance. (महत्वहीन)
 - **Auspicious:** Conducive to success; favourable. (अनुकूल)
 - **Silent:** Not making or accompanied by any sound. (चुपचाप)
- So, as per the meaning of the given words " **Essential**" is the most appropriate option.
- The implied meaning of the sentence is: One's mother tongue is vital for literary development.
- Therefore, the correct answer is option 1 .

Complete passage: *Words convey meaning because they are used in human activities in different forms. Different words may (1) mean the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) comprehend reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) effectively express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) **essential** for one's literary growth, but if you want to communicate to a wider audience, then you will (5) _____ to reach out to the target audience in a language they understand.*

75. Answer: a

Explanation:

The correct answer is: Have

★ Key Points

- Let's look at the use of the given verbs.
 - Have : Used with the pronouns I, you, we, and they.
 - Should : Used to say that something is the proper or best thing to do, or to say that someone ought to do something or must do something.
 - Has : Used with he, she, and it.
 - Had : The past tense and past participle of have.

- In this sentence of the passage the 2nd person pronoun " **you** " is mentioned already.
- So, as per the use of the given words " Have " is the most appropriate option.
- Therefore, the correct answer is option 1 .

Complete passage: *Words convey meaning because they are used in human activities in different forms. Different words may (1) mean the same thing in different languages and this is what is referred to as 'family resemblance.' In other words, languages help us (2) comprehend reality and then communicate it to others. There are tens and thousands of languages in the world and all of them help us (3) effectively express ourselves, which in turn, gives meaning to our life. One's mother tongue is (4) essential for one's literary growth, but if you want to communicate to a wider audience, then you will (5) have to reach out to the target audience in a language they understand.*

76. Answer: a

Explanation:

The correct answer is Tripura.

★ Key Points

- The Sangria dance is a traditional Indian dance performed by the Mog tribal community on the occasion of the Sangria festival during the month of Chaitra of the Bengali calendar year .
- It originated in Tripura ,India .Mogs are Buddhist and have a close affinity with Burmese Buddhism .
- On 26 January 2018 , on India's Republic day ,Rajpath witnessed for the first time a traditional dance of the Mog tribe of Tripura , the land of plentiful myths and legends .
- For the first time ,150 tribal students selected from 25 schools in three districts of Tripura will perform the traditional 'Sangria dance' in the ceremonious Republic Day parade .

★ Additional Information

- **Jat-Jatin** is the most popular **folk dance of North Bihar** , especially in the **Mithila and Koshi regions** . It is performed by **a man and a woman** ; the man is going far away to work. The **dance reflects poverty and sorrow** .
- **Dollu Kunitha** is a **traditional dance form in Karnataka** .Dollu Kunithâ is **high on energy** and is **performed all over the state during major festivals and celebrations** .
- **Dhalo** is a popular **ritual folk dance from Goa** , India. The dance is **performed by women** and **serves as a prayer of protection** for their households . The songs to which the dance is performed are usually **sung in the Konkani language or Marathi** .

77. **Answer: b**

Explanation:

The correct answer is two.

★ Key Points

- There are **seven countries** that **share their borders with our country** .
- In the **northwest of India** ,**Afghanistan and Pakistan** lie . **China, Nepal** , and **Bhutan** lie in the **north of our country** .
- **Myanmar and Bangladesh** surround **India in the east** .
- **Maldives** lies in the **southwest of India** and **Sri Lanka** lies in the **southeast of India** .
- **The two island countries** are the **southern neighbors of India** .
 - **Sri Lanka**
 - **Maldives**
- **Sri Lanka shares a sea border with India** and the area of this small country is **about 65610 sq km** .
- The area of **Maldives is about 298 sq km** . This is a **very small country**.
- Both **Sri Lanka** and the **Maldives** are **tropical countries** .

★ Additional Information

- The official language of Sri Lanka is Sinhala , and Tamil and this country comprises a total number of nine states .
- Maldives comprises only one state and is located to the southwest of our country . The official language of Maldives is Dhivehi . This country is very famous for its coral islands . This country is a famous tourist destination . The landscapes found in the Maldives are composed of lagoons along with attractive beaches .
- Sri Lanka is more diverse than Maldives in terms of landscapes, nature, architecture, flora, and fauna .

78. Answer: b

Explanation:

The correct answer is 1782.

★ Key Points

- Tipu Sultan , also known as the Tiger of Mysore , was the ruler of the Kingdom of Mysore based in South India .
- He was a pioneer of rocket artillery .
- He was born on 1 December 1751 in Devanahalli and died on 4 May 1799 in Srirangapatna .
- Remembered as the first freedom fighter from India , Tipu Sultan is known for his bravery and skills .
- He had strongly resisted the conquest of the British East India Company in southern India and he was reluctant to welcome them on his soil . Tipu ruled the kingdom of Mysore , which he inherited from his father Haidar Ali .
- He became ruler of Mysore in 1782 .

★ Additional Information

- On the 4th of May 1799 , the legendary Indian ruler Tipu Sultan was killed , fighting the East India Company Army.
- His personal possessions and rich library were looted .

- His four swords are on permanent display in two renowned Museums in London .

79. Answer: d

Explanation:

The correct answer is VK Singh.

★ Key Points

- General Vijay Kumar Singh ,PVSM, AVSM, YSM, ADC is an Indian politician and a former four-star General in the Indian Army .
- He is the current Minister of State in the Ministry of Road Transport and Highways and the Ministry of Civil Aviation in the Second Modi ministry.
- He was born on 10 May 1951 in Pune .
- **Courage and Conviction: An Autobiography** is an autobiographical book by Indian General Vijay Kumar Singh written with Shiv Kunal Verma .
- He is a member of the Lok Sabha since 2014 from the Bhartiya Janta Party .

★ Additional Information

- Lieutenant General Yogesh Kumar Joshi ,PVSM, UYSM, AVSM, VrC, SM, ADC is a retired General Officer of the Indian Army . He was the General Officer Commanding-in-Chief Northern Command .
- General Dalbir Singh Suhag ,PVSM, UYSM, AVSM, VSM, ADC is the current Indian High Commissioner to Seychelles and a former Chief of Army Staff of the Indian Army . He was the 25th Chief of the Army Staff of the Indian Army .
- General Manoj Mukund Naravane PVSM AVSM SM VSM ADC is a retired Indian Army General who served as the 27th Chief of the Army Staff , as well as the temporary Chairman of the Chiefs of Staff Committee from 15 December 2021 until his superannuation on 30 April 2022 .

80. Answer: a

Explanation:

The correct answer is Ambubachi Festival.

★ Key Points

- The Ambubachi Mela is an annual Hindu mela .
- It is held at Kamakhya Temple in Guwahati, Assam .
- This yearly Mela is celebrated during the monsoon season that happens to fall during the Assamese month Ahaar , around the middle of June when the sun transit to the zodiac of Mithuna , when the Brahmaputra river is in spate .
- Ambubachi means spoken with water and it also implies that the rains expected during this month make the earth fertile and ready for procreation .
- Daily worship is suspended during this period . All agricultural work like digging, ploughing, sowing, and transplanting crops is forbidden .

★ Additional Information

- Mando is a beautiful dance performance . The theme is usually one of love – a bitter and sweet passion that is slow and deliberate in movement and well expressed through words and graceful movements of the dance .
- Majuli festival is celebrated in the northeast side of the country , in the state of Assam . The place to celebrate the festival is the bank of River Luit , which happens to have the biggest river island in the world .
- Sunburn is a commercial electronic dance music festival held in India . From 2007 to 2015 , it took place in Vagator ,Goa , India every year, but in 2016 it was shifted to Pune ,Maharashtra .

81. Answer: c

Explanation:

The correct answer is Karnataka.

★ Key Points

- Bi-cameral legislature:-
 - A bi-cameral legislature is a legislative body with two houses.
 - India is one such example where there are two houses both at union and also at 6 of its 28 states.
 - In a bicameral legislature, the function to administer and implement the laws is shared between the two houses.
 - At the central level, the Indian Parliament has two houses:
 - Lok Sabha (Lower House)
 - Rajya Sabha (Upper House)
 - At the state level, six of the 28 state legislatures have two houses:
 - Legislative Assembly (Vidhan Sabha)
 - Legislative Council (Vidhan Parishad)
 - The names of the *six states having bicameral legislature* are:
 - Andhra Pradesh
 - Bihar
 - Karnataka
 - Maharashtra
 - Telangana
 - Uttar Pradesh

★ Additional Information

- Unicameral:-
 - Unicameral system of Government, the state has only one house known as the Legislative Assembly (Vidhan Sabha).
 - Article 170 - The Legislative Assembly
 - The members of the Legislative Council are directly elected by the people.
 - The maximum strength of the Legislative Assembly is fixed at 500 and the minimum strength is 60.
 - The Governor can nominate one member from the Anglo-Indian community.
 - Like Lok Sabha, the Legislative Assembly is not a permanent body and is subject to dissolution .
 - The tenure of a member of the Legislative Assembly is 5 years.
 - Presiding Officers - The Speaker/ Deputy Speaker (Article 178)
 - There are 24 states that have a Unicameral legislature.

- The Unicameral states are Arunachal Pradesh, Assam, Chhattisgarh, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Kerala, Madhya Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Puducherry, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal

82. Answer: d

Explanation:

The correct answer is Madhya Pradesh.

★ Key Points

- The government of Madhya Pradesh (MP) has announced the implementation of the scheme "Mukhyamantri Ration Apke Dwar Yojana",
- Which will start in November 2021 .
- Under this scheme , the ration will be provided at the doorstep of the villagers where there are no Fair Price Shops (FPS) .
- The days of each month will be fixed by the District Collector for distribution in the village .
- On average , 220 to 440 quintals of food items will be distributed by a vehicle for 22 to 25 days (excluding holidays) in a month .
- An estimated 472 vehicles will be used for food transportation.
- The annual expenditure of Rs.24 thousand per month on one metric ton vehicle and Rs.31 thousand per month on a 2 metric ton vehicle is estimated at Rs.14 crore 7 lakhs .

★ Additional Information

- There will be all arrangements for keeping an electronic weighing fork ,mic ,speaker ,POS machine ,seating, and keeping food grains safe for weighing the material in the vehicle .
- Under the Public Distribution System , there is a provision to operate a fair-price shop at the Gram Panchayat level .
- Divyang ,old, and physically challenged people face difficulty in getting ration material from the shop and poor families also suffer the loss of wages .

Keeping **these facts in view** , this decision has been **taken by the Council of Ministers** .

- The scheme will **save the wages and labor of the beneficiary**, supply ration **material to the eligible families** in the **village of residence**, and **distribution of ration material on time** .

83. Answer: d

Explanation:

The correct answer is Humidity.

★ Key Points

- **Humidity** is the **amount of water vapor in the air** . If there is a lot of water vapor in the air , the **humidity will be high** . The **higher the humidity** , the **wetter it feels outside** .
- When the **air has a high moisture content** , as is the **case in humid weather** , this **sweat cannot evaporate** , leaving our bodies **feeling hot and sticky** . To cool off, our bodies must **work even harder** . This results in **excessive sweating** , **increased rate and depth of blood circulation** , and **increased respiration** .
- **High humidity levels** are more likely in **warm air** because it can **hold more water at higher temperatures** .
- Most people find that a relative humidity between **30 to 60 percent** is the **most comfortable** , with **indoor humidity** ideally between **30 to 50 percent** .
- We can **use exhaust fans** in **bathrooms and kitchens** to remove **moisture from the outside** .
- A **hygrometer** is **an instrument used in meteorological science** to measure the **humidity or amount of water vapor in the air** .

★ Additional Information

- **Opacity** is defined as **the quality of not letting light pass through** , or **hard to understand**. An example of **something with opacity** is a **darkened window** .
- **Abrasion** is **a process of erosion** that occurs when the **material being transported** wears away at **a surface over time** .

- In meteorology ,precipitation is any product of the condensation of atmospheric water vapor that falls under gravitational pull from clouds .

84. Answer: a

Explanation:

The correct answer is Article 40.

★ Key Points

- **Article 40** of the **Constitution** which **enshrines** one of the **Directive Principles of State Policy** lays down that the **State shall take steps to organize village panchayats and endow them with such powers and authority as may be necessary to enable them to function as units of self-government** .
- **Balwant Rai Mehta** was a **parliamentarian** when the committee was established . He is credited for **pioneering the concept of the Panchayati Raj in India** and is also known as the **Father of Panchayati Raj in India** .
- **Panchayati Raj** was inaugurated by the then **Prime Minister Pandit Jawaharlal Nehru** on **2 October 1959** at **Nagour in Rajasthan** .

★ Additional Information

- **Article 48** of the **Constitution of India** is one of the **Directive Principles** which directs the state to make efforts for **banning animal slaughtering of cows and calves and other milch and draught cattle** . It further states to organize agriculture and animal husbandry on modern and scientific lines.
- The **State shall endeavor to secure** , by suitable **legislation or economic organization** or in **any other way** , to **all workers ,industrial or otherwise ,work** , a **living wage ,conditions of work** ensuring a **decent standard of life**, and **full enjoyment of leisure and social and cultural opportunities** .
- **Article 39A** of the **Constitution** mandates **the State to secure that the operation of the legal system promotes justice on a basis of equal opportunity**, and ensures that the **same is not denied to any citizen by reason of economic or other disabilities** .

85. Answer: c

Explanation:

The correct answer is 1951.

★ Key Points

- Census was conducted non-synchronously between 1865 and 1872 in different parts of the country .
- This effort culminating in 1872 has been popularly labeled as the first Census of India .
- In 1872 AD , the first Census was done in India under the rule of Lord Mayo .
- The First Official Census in India was done in 1881 AD under Lord Rippon .
- It was called the First synchronized census .
- Since 1901 , it has been taking place every decade .

★ Additional Information

- Census 2011 , is the 15th census and the 7th after independence .
- The slogan of Census 2011 is "Our Census, Our Future".
- India was the first country to adopt family planning in the world .

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86. Answer: a

Explanation:

The correct answer is 168 to 212.

★ Key Points

- Article 168 : Constitution of Legislatures in States.
- For every State, there shall be a Legislature which shall consist of the Governor .
 - In the States of Andhra Pradesh ,Telangana ,Uttar Pradesh, Bihar, Maharashtra, Karnataka, and Jammu and Kashmir ,two Houses ;

- In other States ,one House .
 - Where there are **two Houses of the Legislature** of a State, one shall be known as the **Legislative Council** and the other as the **Legislative Assembly** , and where there is only one House , it shall be known as the **Legislative Assembly**.
 - According to **article 212**, No officer or member of the Legislature of a State in whom powers are vested by or under this Constitution for regulating procedure or the conduct of business , or for maintaining order , in the Legislature shall be subject to the jurisdiction of any court in respect of the exercise by him of those powers
- CHAPTER IV LEGISLATIVE POWER OF THE GOVERNOR .**

★ Additional Information

- According to **article 198**, If the **Legislative Assembly** accepts any of the recommendations of the **Legislative Council** , the **Money Bill** shall be deemed to have been passed by both Houses with the amendments recommended by the **Legislative Council** and accepted by the **Legislative Assembly** .
- **Article 220** Restriction on practice after being a permanent Judge .-No person who , after the commencement of this Constitution , has held office as a permanent Judge of a High Court shall plead or act in any court or before any authority in India except the **Supreme Court** and the other High Courts .
- **Article 112** deals with the **Annual financial statement** . It says that the **President** shall in respect of every financial year cause to be laid before both Houses of Parliament a statement of the **estimated receipts** and **expenditure** of the **Government of India** for that year, in this Part referred to as the **annual financial statement** .
- **Article 175** is the **Right of the governor to address and send messages to the Home or House** .
- **Article 132** is An appeal shall lie to the **Supreme Court** from any judgment ,decree, or final order of a High Court in a State, whether in **civil ,criminal**, or other proceedings, if the High Court certifies that the case involves a substantial question of law as to the interpretation of this Constitution .
- **Article 196** is Provisions as to introduction and passing of Bills .

87. Answer: b

Explanation:

The correct answer is Sanskrit.

★ Key Points

- Banābhata was a 7th-century Sanskrit prose writer and poet of India .
- He was the Asthana Kavi in the court of King Harsha Vardhana , who reigned c. 606–647 CE in north India first from Sthanvishvara , and later Kannauj .
- The Harshacharita is the biography of the Indian emperor Harsha by Banabhata , also known as Bana .
- He was a Sanskrit writer from seventh-century CE India .
- He was the Asthana Kavi, meaning Court Poet, of Harsha .

★ Key Points

- Pali is a Middle Indo-Aryan liturgical language native to the Indian subcontinent . It is widely studied because it is the language of the Buddhist Pāli Canon or Tipiṭaka as well as the sacred language of Theravada Buddhism .
- The Prakrits are a group of vernacular Middle Indo-Aryan languages that were used in the Indian subcontinent from around the 3rd century BCE to the 8th century CE.

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88. Answer: c

Explanation:

The correct answer is Both I and II are correct.

★ Key Points

- Composting is the natural process of recycling organic matter, such as leaves and food scraps , into a valuable fertilizer that can enrich soil and plants .
- Compost is a mixture of ingredients used to fertilize and improve the soil .
- It is commonly prepared by decomposing plant and food waste and recycling organic materials .

- The resulting mixture is rich in plant nutrients and beneficial organisms ,such as worms and fungal mycelium .
- Composting is a process that involves the biological decomposition of organic matter, under controlled conditions ,into soil conditioner .

★ Additional Information

- There are four primary compost types:
 - compost,
 - farmyard manure,
 - green manure,
 - vermicompost .
- The point of compost is to nourish your soil to provide a healthy habitat in which your grass, plants, and trees can thrive .

89. Answer: d

Explanation:

The correct answer is ghatam.

★ Key Points

- Thetakudi Harihara Vinayakram , also known as Vikku Vinayakram , is an Indian percussionist .
- He is also known as the God of ghatam .
- He plays Carnatic music with the ghatam , an earthen pot , and is credited with popularising the ghatam .
- Ghatam is a large ,narrow-mouthed earthenware water pot used as a percussion instrument in India . Unlike other Indian percussion instruments , such as the tabla and mridangam , the ghatam does not have a membrane over its mouth .

★ Additional Information

- The dholak is a two-headed hand drum ,a folk percussion instrument . The instrument is about 45 cm in length and 27 cm in breadth and is widely used in qawwali ,kirtan ,lavani ,and bhanga . The drum has two different-sized drumheads .
- The sarod is a stringed instrument , used mainly in Hindustani music on the Indian subcontinent . Along with the sitar , it is among the most popular and prominent instruments .
- A tabla is a pair of twin-hand drums from the Indian subcontinent . Since the 18th century , it has been the principal percussion instrument in Hindustani classical music .

90. Answer: a

Explanation:

The correct answer is Son.

★ Key Points

- The Indus is a transboundary river of Asia and a trans-Himalayan river of South and Central Asia .
- The 3,180 km river rises in Western Tibet , flows northwest through the disputed region of Kashmir, and bends .
- The origin of Indus river is Tibetan Plateau ,Senge Zangbu ,Gar River .
- The river touches Karachi, Peshawar, Gilgit, Attock, Thatta, Jamshoro, Rawalpindi, and Kot Mithan .
- Son is not a tributary of the Indus in India .

★ Additional Information

- The Kabul River , the classical Cophen , is a 700-kilometer-long river that emerges in the Sanglakh Range of the Hindu Kush mountains in the northeastern part of Maidan Wardak Province, Afghanistan . It is separated from the watershed of the Helmand River by the Unai Pass .
- The Gilgit River is a tributary of the Indus River and flows through the Gupis-Yasin ,Ghizer, and Gilgit districts of Gilgit-Baltistan .

- The Shyok River is a tributary of the Indus River that flows through northern Ladakh and enters Gilgit–Baltistan, spanning some 550 km. The Shyok River originates at the Rimo Glacier, one of the tongues of the Siachen Glacier.

91. Answer: a

Explanation:

The correct answer is Australia.

★ Key Points

- The 2022 ICC Women's Cricket World Cup was the twelfth edition of the Women's Cricket World Cup.
- It was held in New Zealand in March and April 2022.
- It was originally scheduled for 6 February to 7 March 2021 but was postponed by one year due to the COVID-19 pandemic.
- It is organized from 4 Mar 2022 – 3 Apr 2022.
- New Zealand qualified automatically as hosts.
- Australia was the first team to qualify for the semi-finals after they won their first five matches of the tournament.

★ Additional Information

- Australia's Alyssa Healy scored 170 runs in the match, the highest individual score made by any cricketer, male or female, in the World Cup Final.
- Alyssa Healy was the leading run-scorer in the competition, with 509, and was named the Player of the Tournament.
- In the final of the tournament, Australia beat England by 71 runs to win their seventh World Cup.
- South Africa became the second team to reach the semi-finals, winning four out of their first six group matches, and gaining a point for a no-result against the West Indies.

92. Answer: c

Explanation:

The correct answer is Shree Narayana Guru.

★ Key Points

- Narayana Guru , IPA, was a philosopher ,spiritual leader , and social reformer in India .
- He led a reform movement against injustice in the caste-ridden society of Kerala in order to promote spiritual enlightenment and social equality .
- He was born on 20 August 1856 ,Chempazhanthy in Thiruvananthapuram , and died on 20 September 1928 , in Sivagiri, Kerala .
- He coined the slogan “ One Caste, One Religion, One God for All” to combat caste injustice (Oru Jathi, Oru Matham, Oru Daivam, Manushyanu).
- In 1888 , he constructed a temple in Aruvippuram devoted to Lord Shiva ,defying the caste-based norms of the time .

★ Additional Information

- Mohandas Karamchand Gandhi was an Indian lawyer ,anti-colonial nationalist , and political ethicist who employed nonviolent resistance to lead the successful campaign for India's independence from British rule and to later inspire movements for civil rights and freedom across the world .
- Jyotirao Govindrao Phule , also known as Mahatma Jyotiba Phule was an Indian social activist ,thinker ,anti-caste social reformer , and writer from Maharashtra .
- Rajendra Prasad was an Indian politician ,lawyer ,Indian independence activist ,journalist & scholar who served as the first president of the Republic of India from 1950 to 1962 .

93. Answer: b

Explanation:

The correct answer is Kanyakumari.

★ Key Points

- Jhansi is the junction of the North-South and East-West Corridors and four stretches are shared between the Golden Quadrilateral and the NS-EW Corridors .
- The NS-EW Corridor passes from 17 states and Delhi along with other state capitals such as Srinagar ,Hyderabad ,Bangalore ,Lucknow , and Dispur .
- The North-South and East-West Corridor is the largest ongoing highway project in India .
- It is the second phase of the National Highways Development Project consisting of building four/six-lane expressways connecting Srinagar (North), Kanyakumari (South), Porbandar (West), and Silchar (East).

★ Additional Information

- The National Highways Authority of India initiated the National Highway Development Program in 1998 to ease chronic capacity constraints by upgrading key arteries of the National Highways network .
- The project , which this validation is reviewing , was the third loan financed by the Asian Development Bank (ADB) for the multiyear lending program .
- The program upgraded into four lanes that are corridors connecting the major metropolitan cities of Delhi, Mumbai, Chennai, and Kolkata (known as the golden quadrilateral).
- The North-South corridor connects Srinagar to Kanyakumari (4,000 km), and the East-West corridor connects Silchar to Porbandar (3,300 km).
- The North-South corridor is a 4,000 kilometers corridor that runs through NH 44 from Srinagar-Udhampur-Jammu-Jalandhar-Delhi-Agra-Gwalior-Jhansi-Narsinghpur-Lakhnadon-Nagpur-Hyderabad-Bengaluru-Salem-Madurai to Kanyakumari .
- East-West Corridor includes 3,300 kilometers corridor via NH 27 from Porbandar-Rajkot-Samakhiali-Radhanpur-Kota-Jhansi-Kanpur-Lucknow-

Ayodhya–Gorakhpur–Muzaffarpur–Darbhanga–Supaul–Purnia–Kishanganj–Galgalia–Bijni–Guwahati–Nagaon–Dabaka to Silchar.

94. Answer: c

Explanation:

The correct answer is Qutubuddin Aybak, Shamsuddin Iltutmish, Raziyaa.

★ Key Points

Qutb ud-Din Aibak (1206 –1210)

- Qutb ud-Din Aibak, was a general of the Ghurid king Muhammad Ghori.
- He was in charge of the Ghurid territories in northern India, and after Muhammad Ghori's death, he became the ruler of an independent kingdom.
- Born to a Turkish family in Central Asia.
- Started construction of the **Quwwat-ul-Islam mosque** in Delhi. This is one of the first Islamic monuments in northern India.
- He began the construction of **Qutb Minar in Delhi**.
- Aibak was also known as Lakh Bash (Giver of Lakhs) for his generosity. However, he was also responsible for the destruction and desecration of many Hindu temples.
- He was succeeded by Aram Shah.

Shams ud-Din Iltutmish (1211– 1236)

- Shams ud-Din Iltutmish was the **third** of the Mamluk kings who ruled the former Ghurid territories in northern India.
- Aram Shah was a weak ruler. It is not clear whether he was a son of Aibak or not. He was conspired against by a group of nobles who invited Shamsuddin Iltutmish to be the ruler.
- He was the first Muslim sovereign to rule Delhi.
- Iltutmish was the greatest of the slave rulers of Delhi. He shifted his capital from **Lahore to Delhi**.

- He introduced the two coins of the Sultanate, the silver **tanka** and the copper **jital**.

Raziya (1236-1240)

- Raziya (Radiya in Arabic) was the first and only female ruler of the Mamluk Sultanate of Delhi, Her reign was extraordinary not only because of her gender but also because her father chose her.
- She was married to Malik **Ikhtiar-ud-din Altunia**, the **governor of Bathinda**.
- She was reportedly killed by her brother's forces.
- Her brother Muizuddin Bahram Shah succeeded her.

★ Additional Information

Other rulers of the Slave dynasty

Ruler	Reign
Qutb ud-Din Aibak	(1206-1210 AD)
Aram Shah	(1210-1211 AD)
Iltutmish	(1211-1236 AD)
Rukn-ud-din Feroze	(1236 AD)
Razia al-Din	(1236-1240 AD)
Muiz-ud-din Bahram	(1240-1242 AD)
Ala-ud-din Masud	(1242-1246 AD)
Nasiruddin Mahmud	(1246-1266 AD)
Ghiyas-ud-din Balban	(1266-1286 AD)
Muiz-ud-din Muhammad Qaiqabad	(1286-1290 AD)

95. Answer: d

Explanation:

The correct answer is Golgi apparatus.

★ Key Points

- The **Golgi apparatus**, also known as the **Golgi complex**, **Golgi body**, or simply **the Golgi**, is an **organelle** found in most **eukaryotic cells**.
- Part of the **endomembrane system** in the **cytoplasm**, it packages **proteins** into **membrane-bound vesicles** inside the **cell** before the **vesicles** are sent to their **destination**.
- **Functions of Golgi apparatus** :
 - **Material synthesized** near **ER** is **packaged** and **dispatched** to various **targets** inside and **outside** the **cell** through **Golgi apparatus**.
 - Its function is the **storage**, **modification**, and **packaging** of **products**.
 - **Complex sugars** are made from **simple sugars**.
 - **Formation of lysosomes**.

★ Additional Information

- The **endoplasmic reticulum** is, in essence, the **transportation system** of the **eukaryotic cell**, and has **many other important functions** such as **protein folding**.
- **Lysosomes** are **membrane-enclosed organelles** that contain an **array of enzymes** capable of **breaking down** all types of **biological polymers** – **proteins**, **nucleic acids**, **carbohydrates**, and **lipids**.
- A **vacuole** is a **membrane-bound organelle** that is **present** in **plant and fungal cells** and **some protist**, **animal**, and **bacterial cells**.

96. Answer: b

Explanation:

The correct answer is Ajmer.

★ Key Points

- Ajmer is a city in the northern Indian state of Rajasthan .
- South of the city's artificial Ana Sagar Lake is Ajmer Sharif Dargah , the domed shrine of the Muslim Sufi saint Garib Nawaz .
- Nearby, a 16th-century palace built by the Mughal emperor Akbar now houses the Ajmer Government Museum , displaying armor and stone sculptures .
- A museum at the Indo-Saracenic-style Mayo College exhibits art and taxidermied birds .
- Also, Pushkar lake is situated in Ajmer.

★ Additional Information

- Jaipur is the capital of India's Rajasthan state . It evokes the royal family that once ruled the region and that, in 1727 ,founded what is now called the Old City, or "Pink City" for its trademark building color .
- Bikaner is a city in the north Indian state of Rajasthan , east of the border with Pakistan . It's surrounded by the Thar Desert . The city is known for the 16th-century Junagarh Fort .
- Alwar is a city in the northern Indian state of Rajasthan .Alwar City Palace , from 1793 , blends architectural styles and has marble pavilions on lotus-shaped bases in its courtyard, plus a museum with rare manuscripts.

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97. Answer: c

Explanation:

The correct answer is Khashaba Jadhav.

★ Key Points

- Khashaba Dadasaheb Jadhav was an Indian athlete .
- He is best known as a wrestler who won a bronze medal at the 1952 Summer Olympics in Helsinki .
- He was the first athlete from independent India to win an individual medal in the Olympics .

- He was born on 15 January 1926 in Satara and died on 4 August 1984 in Karad .

★ Additional Information

- Colonel Rajyavardhan Singh Rathore , AVSM, is an Indian politician ,Olympic medallist ,former shooting athlete, and retired Indian Army officer . Rathore is a Member of Parliament in the 17th Lok Sabha from the Jaipur Rural seat .
- Pilavullakandi Thekkeraparambil Usha born 27 June 1964) is a retired Indian track and field athlete . She was born in Kuttali , Kozhikode, Kerala. She has been associated with Indian athletics since 1979 . She has won 4 Asian gold medals and 7 Silver medals . She is often called the "Queen of Indian track and field".
- Abhinav Apjit Bindra is an Indian Olympic gold medallist , retired sports shooter , and businessman . He is the first and one of only 2 Indians to win an Individual Olympic Gold Medal .

98. Answer: d

Explanation:

The correct answer is Shah Rukh Khan.

★ Key Points

- Coca-Cola has signed Bollywood actor Shah Rukh Khan as the brand ambassador for Thums Up .
- Shah Rukh Khan was associated with a rival cola brand ,Pepsi , for a long period of time and this is his first big endorsement after the controversy involving his son Aryan Khan in a drug case last year.
- Coca-Cola , or Coke , is a carbonated soft drink manufactured by the Coca-Cola Company . Originally marketed as a temperance drink and intended as a patent medicine .
- Shah Rukh Khan , is an Indian actor, film producer , and television personality who works in Hindi films .

★ Additional Information

- **Mahendra Singh Dhoni** is an **Indian professional cricketer** who was **captain** of the **Indian national cricket team** . He has been **roped in** to be the **brand ambassador** and **shareholder** in **Garuda Aerospace** .
- **Ranveer Singh Bhavnani** is an **Indian actor** who works in **Hindi films** . The recipient of **several awards** , including four **Filmfare Awards** .**Sleepyhead** has announced actor **Ranveer Singh** as their first **brand ambassador** .
- **Rajiv Hari Om Bhatia** , known professionally as **Akshay Kumar** , is an **Indian-born naturalized Canadian actor** and **film producer** who works in **Hindi cinema** . Some of the **30 brands endorsed** by **Akshay Kumar** are **Fau-G** ,**GOQii** ,**Honda** ,**Nirma** ,**Policy Bazaar** , **Livguard Energy** , **Harpic** ,**Suthol** ,**Dollar** ,**Tata Motors** ,**PC Jewelers** ,**Revital H** , **Lever Ayush** , and **Cardekho** among other.

99. Answer: b

Explanation:

The correct answer is Kathak.

★ Key Points

- **Pandit Birju Maharaj** was an **Indian dancer ,composer ,singer,** and **exponent of the Lucknow "Kalka-Bindadin" Gharana of Kathak dance in India** .
- He was a **descendant of the Maharaj family of Kathak dancers** , which includes **his two uncles ,Shambhu Maharaj and Lachhu Maharaj** , and **his father and guru ,Acchan Maharaj** .
- He was **born on 4 February 1938 in Handia** and **died on 17 January 2022 in Delhi** .
- He was awarded **Padma Vibhushan** and **Filmfare Award for Best Choreography** and **more** .
- **Kathak** is one of the **eight major forms of Indian classical dance** . It is the **classical dance form of Uttar Pradesh** . The **origin of Kathak** is traditionally attributed to the **traveling bards of ancient northern India** known as **Kathakars** or **storytellers** .

★ Additional Information

- Odissi also referred to as Orissa in old literature , is a major ancient Indian classical dance that originated in the Hindu temples of Odisha – an eastern coastal state of India .
- Bharatanatyam is the oldest classical dance tradition in India . Bharatanatyam is the state dance form of Tamil Nadu .Bharatanatyam contains different types of banis .Bani, or 'tradition ' , is a term used to describe the dance technique and style specific to a guru or school .
- The Manipuri Dance also referred to as the Manipuri Raas Leela , is one of the eight major Indian classical dance forms , originating from the state of Manipur .

100. Answer: b

Explanation:

The correct answer is Hydrogen.

★ Key Points

- Chemical symbols are the abbreviations used in chemistry for chemical elements ,functional groups, and chemical compounds .
- Element symbols for chemical elements normally consist of one or two letters from the Latin alphabet and are written with the first letter capitalised .
- A chemical symbol is a one- or two-letter designation of an element .
- A chemical symbol is a one- or two-letter designation of an element .
- Some examples of chemical symbols are O for oxygen ,Zn for zinc ,H for hydrogen, and Fe for iron .
- The first letter of a symbol is always capitalized . If the symbol contains two letters ,the second letter is lowercase .

★ Additional Information

- Helium is denoted by He .
- Holmium is denoted by Ho .
- Mercury is denoted by Hg .