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NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 20 July 2022 Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	General 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 correct mirror image of the given figure when the mirror is placed at the right side.

(+1, -0.25)



2. Select the figure that will come next in the following figure series.

(+1, -0.25)



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3. The scores of seven batsman B1, B2, B3, B4, B5, B6 and B7 are compared. (+1, -0.25)
 The score of B1 is greater than B7 and B3. The score of B6 is neither more nor less than the score of B4 but more than B1. B5 scored less than only one batsman. The score of B7 is not the least score.

How many batsman scored more than B4?

- a. 3
- b. 1
- c. 2

d. 4

-
4. 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. All M are Q.

II. No L is Q.

Conclusions:

I. No M is L.

II. Some L are not M.

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

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





6. Select the option that will replace the question mark (?) in the given series. (+1, -0.25)

45, 35, 27, 21, 17, ?

- a. 14
- b. 13
- c. 15
- d. 16

7. In a certain code language, 'Ashok is big' is written as 'pr 6 8', 'Huge people are strong' is written as 'lm pt 7 @' and 'Is big are' is written as 'pr pt 8'. What can be the possible code for 'Ashok people' in that code language? (+1, -0.25)

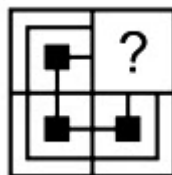
- a. 6 pt
- b. 8 7
- c. 6 lm
- d. lm @

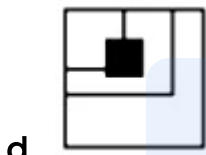
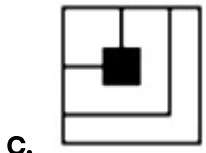
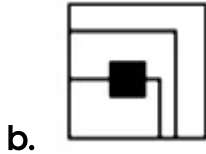
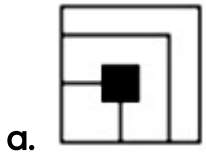
8. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word. (+1, -0.25)

Cricket : Bat :: Hockey : Stick :: Rugby : ?

- a. Ball
- b. Goal
- c. Field
- d. Player

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





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 fourth number is related to third number. (+1, -0.25)

7 : 2401 :: 3 : 441 :: 5 : ?

- a. 685
- b. 880
- c. 1805
- d. 1225

11. In a certain code language, 'nu vu du' is written as 'Please ask Hamza', 'hu du ru' is written as 'Give water please', and 'tu vu ru' is written as 'Give Hamza Book'. What is the code for the word 'Book' in that language? (+1, -0.25)

- a. ru
- b. vu
- c. tu
- d. nu

12. 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)

RBS : OXN :: OXA : ?

- a. LTW
- b. LUW
- c. LTV
- d. LUV

13. Select the option in which the given figure is embedded. (Rotation of figure not allowed.) (+1, -0.25)



- a.



14. Select the option in which the numbers are related in the same way as are the numbers in the given set. (+1, -0.25)

(131, 142, 153)

- a. (161, 172, 195)
- b. (119, 130, 141)
- c. (149, 160, 193)
- d. (127, 149, 160)

15. After interchanging the given two signs, what will be the value of the given expression? (+1, -0.25)

÷ and ×

$$5 + 10 \div 8 \times 2 - 20$$

- a. 25

- b. 30
 - c. 20
 - d. 35
-

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

ACL, DFO, GIR, JLU, MOX, ?

- a. PRA
 - b. NPZ
 - c. OQZ
 - d. ARP
-

17. In a certain code language, 'ADULT' is coded as '53' and 'LACK' is coded as '23'. How will 'HEAVEN' be coded in that language? (+1, -0.25)

- a. 58
 - b. 55
 - c. 49
 - d. 61
-

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:

All scales are pencils.

Some pencils are erasers.

Conclusions:

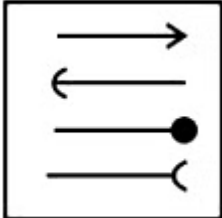
I: Some scales are erasers.

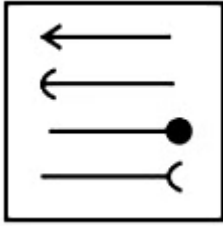
II: Some pencils are scales.

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

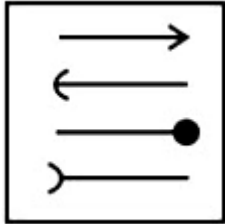
19. Select the figure from among the given options that can replace the question mark (?) in the following series. (+1, -0.25)



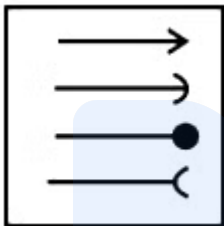
- a. 



b.



c.



d.

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

$$81 + 31 \div 9 - 7 = 33$$

- a. 9 and 7
- b. 31 and 9
- c. 31 and 81
- d. 81 and 7

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

SIDE22 : UKFG19 :: SETS15 : UGVU12 :: MINE11 : ?

- a. NJOF12
- b. OKPG8
- c. NJOF9
- d. OKPG14

22. In a certain code language, 'sand is hot' is written as '6 8 9' and 'grains are white sand' is written as '4 3 9 2'. What is the code for 'hot' in that code language? (+1, -0.25)

- a. 4
- b. 6 or 8
- c. 9
- d. 3

23. Seven girls V, K, L, P, A, C and N are sitting in a row facing the South (not necessarily in the same order). L is to the immediate left of P. K is at the rightmost end. A is the immediate neighbour of K. Only N is between A and C. Only P is between L and C. Which of the following statements is/are correct? (+1, -0.25)

- I. P is third to the left of A.
 - II. N is to the immediate right of C.
- a. Neither I nor II
 - b. Only I

- c. Both I and II
 - d. Only II
-

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

482, 239, 158, 131, 122, ?

- a. 121
 - b. 119
 - c. 117
 - d. 113
-

25. Six friends Amit, Bhuvan, Chand, David, Emily and Fedrick are sitting around a circular table facing towards the centre (not necessarily in the same order). Amit sits third to the left of David. David sits to the immediate right of Bhuvan. Bhuvan sits second to the left of Emily. Chand sits second to the right of Fedrick. Who sits second to the right of Amit? (+1, -0.25)

- a. Chand
- b. Bhuvan
- c. Emily
- d. Fedrick

Numerical Aptitude

26. The selling price of a plate is 140% of its cost price. What will be the profit percentage? **(+1, -0.25)**
- a. 35%
 - b. 28.57%
 - c. 40%
 - d. 25%
-
27. A work can be completed by N men in 15 days. 5 men leave the work after 3 days. The remaining work was completed in 18 days. What is the value of N? **(+1, -0.25)**
- a. 18
 - b. 21
 - c. 15
 - d. 12
-
28. The following table shows the marks obtained by Anoop in his final examination of class X in five different subjects. **(+1, -0.25)**

Subject	Maximum marks	Marks obtained
Hindi	100	74
English	100	84
Math	150	124
Science	50	36.4
Social Science	50	47

What is the percentage of marks obtained by Anoop in all the five subjects put together?

- a. 75.8%
- b. 72.6%
- c. 81.2%
- d. 82.1%

29. On a certain sum, the interest is compounded annually. If the compound interest for the second year is ₹400 and the compound interest for the fourth year is 576, then what is the rate of interest per annum? (+1, -0.25)

- a. 20%
 - b. 25%
 - c. 15%
 - d. 44%
-

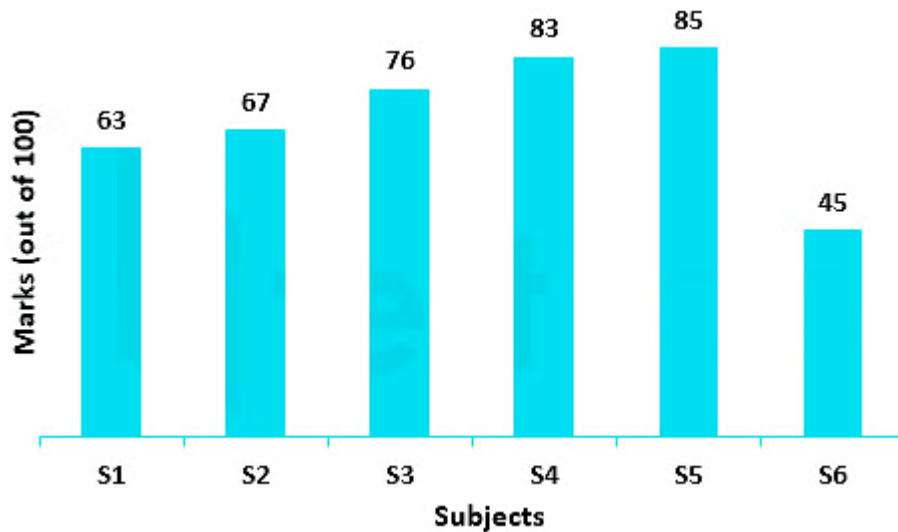
30. What is the value of $(1 \div 2)$ of 10 + $(1 \div 4)$ of 12? (+1, -0.25)

- a. -11
 - b. 11
 - c. -3
 - d. 8
-

31. Out of a total of 9 books arranged in a particular order, the mean of the number of pages in the first 5 books is 430, the mean of the number of pages in the last 5 books is 380 and the mean of the number of pages in all the 9 books is 400. Find the number of pages in the fifth book. (+1, -0.25)

- a. 450
 - b. 420
 - c. 430
 - d. 440
-

32. The following bar chart shows the marks obtained (out of 100) by a student in 6 different subjects in an examination. (+1, -0.25)



The total marks obtained by the student in S2 and S4 taken together is what percentage more than the marks obtained by the student in S5? [Give your answer correct to 2 decimal places.]

- a. 73.34%
- b. 71.11%
- c. 76.47%
- d. 79.32%

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33. The speed of a boat going downstream is 22 km/h. The speed of the stream is 1 km/h. How much distance in total will the boat cover going 3 hours downstream and 2 hours upstream? (+1, -0.25)
- a. 106 km
 - b. 112 km
 - c. 102 km
 - d. 94 km

34. S alone can do a piece of work in 14 days. T alone can do the same work in 21 days. U alone can do the same work in 28 days. Working together, in how many days will they complete the work? (+1, -0.25)

- a. $\frac{84}{13}$ days
- b. $\frac{77}{13}$ days
- c. $\frac{71}{13}$ days
- d. $\frac{87}{13}$ days

35. If $A = \frac{2}{3} \div \frac{4}{9}$, $B = \frac{6}{11} \times \frac{33}{12}$ and $C = \frac{1}{3} \times \frac{9}{2}$, then what is the value of $A \times B - C$? (+1, -0.25)

- a. $\frac{3}{4}$
- b. $\frac{3}{16}$
- c. $\frac{3}{2}$
- d. $\frac{3}{8}$

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36. The marked price of a pen is 25% more than its cost price. The pen is sold for ₹220 after a discount of ₹30. What is the profit percentage? (+1, -0.25)

- a. 10%
- b. 15%
- c. 20%
- d. 17.5%

37. The monthly income of a person is ₹15,000. He saves 20% of his income. If his income increases by 10% and his nominal savings remains the same, then what will be his new expenditure? (+1, -0.25)

- a. ₹13,000
- b. ₹14,500
- c. ₹13,500
- d. ₹14,000

38. The curved surface area of a cylinder, whose height is 10 cm, is 1320 cm^2 . What is the volume of this cylinder? [Use $\pi = \frac{22}{7}$] (+1, -0.25)

- a. 1388 m^3
- b. 0.001368 m^3
- c. 0.1386 m^3
- d. 0.01386 m^3

39. The average age of 5 children is 10 years. If two more children of ages 11 years and 16 years join, then what will be the new average age? (+1, -0.25)

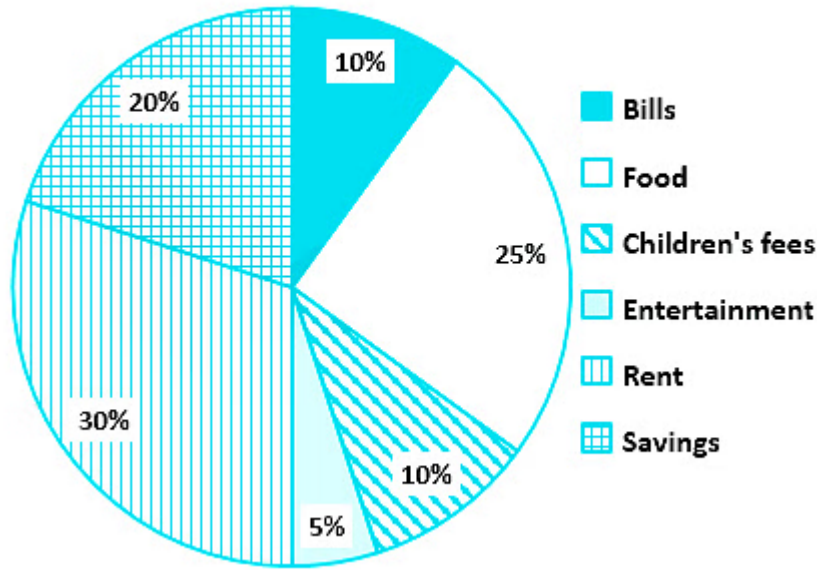
- a. 11 years
- b. 10 years
- c. 13 years
- d. 12 years

40. If K_1 and K_2 are two distinct prime numbers, then what is the product of the highest common factor and the least common multiple of K_1 and K_2 ? (+1, -0.25)
- a. 1
 - b. $\frac{K_1}{K_2}$
 - c. $K_1 + K_2$
 - d. $K_1 \times K_2$
-

41. On a tree, there are some parrots and some pigeons in the ratio of 7 : 9, respectively. After an hour, 8 parrots fly away, and 6 pigeons and 10 sparrows come and sit on the tree. The ratio of the parrots and the pigeons on the tree now is 1 : 4. What is the ratio of the parrots and the sparrows that are now on the tree? (+1, -0.25)
- a. 1 : 1
 - b. 1 : 2
 - c. 3 : 5
 - d. 4 : 5
-

42. The following pie-chart shows the distribution of the monthly income of a man. The monthly income of the man is ₹84,000. (+1, -0.25)

Distribution of the monthly income



How much does he spend on children's fees in a year?

- a. ₹80,500
- b. ₹98,000
- c. ₹1,01,800
- d. ₹1,00,800

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43. A boat takes a total of 2 hours to cover 9 km downstream and return, given that the speed of the stream is 6 km/h. What is the speed of the boat in still water? (+1, -0.25)
- a. 15 km/h
 - b. 8 km/h
 - c. 16 km/h
 - d. 12 km/h

44. If the area of a parallelogram is 508 m^2 and its base is 40 m , then what is the corresponding height of the parallelogram? (+1, -0.25)

- a. 22.2 m
- b. 12.7 m
- c. 10.8 m
- d. 18.4 m

45. Mr. Stark gave 30% of the money he had to Bruce. He also gave 30% of the remaining amount to each of Natasha, Captain and Vision. Half of the remaining amount he spent on miscellaneous items, and the remaining amount of ₹14,000 he deposited in Marvel's Fund. How much money did Mr. Stark initially have? (+1, -0.25)

- a. ₹3,90,000
- b. ₹4,00,000
- c. ₹3,70,000
- d. ₹3,00,000

46. The average of 8 consecutive integers is $\frac{27}{2}$. What is the average of the largest four of these integers? (+1, -0.25)

- a. 16.5
- b. 15
- c. 14.5

d. 15.5

47. A sum, when invested for 2 years at the rate of 10% per annum at simple interest, amounts to ₹4,800 on maturity. What is the sum invested? **(+1, -0.25)**

a. ₹3,600

b. ₹ 4,000

c. ₹3,500

d. ₹ 4,200

48. If $A : B = 3 : 4$ and $B : C = 1 : 5$, then what is $A : C$? **(+1, -0.25)**

a. 3 : 20

b. 3 : 4

c. 1 : 4

d. 3 : 5

49. Kisna buys a cow for ₹15,000. After one year, he sells it for ₹18,500. After one year, again he buys the same cow at ₹19,000 and sells it for ₹22,300. What is the overall profit percentage of Kisna? **(+1, -0.25)**

a. 18%

b. 10%

c. 20%

d. 15%

50. A large solid cube is melted and cast into 'N' small solid spheres, each of radius 3 cm, and 'N + 2' small solid cuboids, each of dimensions 4 cm × 4 cm × 6.5 cm. If the length of each side of the large solid cube is 12 cm, then find the value of 'N'. [Use $\pi = \frac{22}{7}$] (+1, -0.25)
- a. 8
 - b. 5
 - c. 7
 - d. 6

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General English

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

Give someone a taste of their own medicine

- a. Sell something back to someone
- b. Make fun of someone
- c. Mistreat someone in the same way they have treated others
- d. Show someone their faults

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

Uttar Pradesh / accounts for about 16 per cent / of the / country population.

- a. of the
- b. accounts for about 16 per cent
- c. country population
- d. Uttar Pradesh

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

We are _____ to the true legacy of humanism, and we must never forget this.

- a. Here

- b. Heirs
 - c. Hares
 - d. Hair
-

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

You have to understood what normal political rhetoric looks like.

- a. political rhetoric looks like
 - b. understood what normal
 - c. No error
 - d. You have to
-

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

Community leaders were baffled by the sudden arrival of the President.

- a. composed
 - b. confused
 - c. thwarted
 - d. flustered
-

56. Select the option that rectifies the incorrectly spelt words in the given sentence. (+1, -0.25)

Our webcite is no longer avaialbale to the users.

- a. Our website is no longer available to the users.
- b. Our website is no longer availbale to the users.
- c. Our webcite is no longer available to the users.
- d. Our websight is no longer availbale to the users.

-
57. 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)

I has no doubts that there is a lesson which stands to be learnt from Alice's misfortune.

- a. No improvement required
- b. have had no doubts that their is a lesson
- c. have no doubt that there is a lesson
- d. am having no doubts that there are a lesson

-
58. Select the most appropriate meaning of the underlined idiom. (+1, -0.25)

He was on cloud nine after passing the test.

- a. Very depressed
- b. Not educated

- c. Very happy
 - d. Busy at work
-

59. 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)

Discrimination at the basis / of gender is not / acceptable in this office.

- a. No error
 - b. Discrimination at the basis
 - c. acceptable in this office
 - d. of gender is not
-

60. 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)

Viren examined careful all the possibilities of data theft.

- a. examine careful
 - b. No improvement required
 - c. carefully examined
 - d. careful examined
-

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

The RTE Act bears many similarities to the US's No Child Left Behind Act, _____ school accountability, assessment standards and teacher training.

- a. concluding
 - b. startling
 - c. including
 - d. responding
-

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

I think it is quite _____ that your parents still hold hands.

- a. adore
 - b. adorable
 - c. adorably
 - d. adores
-

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

Slim

- a. Skinny
 - b. Moody
 - c. Flashy
 - d. Rosy
-

64. 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)

You are not supposed to touch these books.

- a. to touch this
- b. off touching these
- c. on touched that
- d. No improvement required

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

Sporadic

- a. Ample
- b. Regular
- c. Methodical
- d. Infrequent

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

A game in which no one wins

- a. Null
- b. Lapse
- c. Draw

d. Hung

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

(+1, -0.25)

Evident

- a. Obvious
 - b. Distinct
 - c. Hidden
 - d. Apparent
-

68. 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)

The district woken up to a thick blanket of snow this morning as the winter entered its most bitter phase.

- a. wake up to a
 - b. No improvement required
 - c. awaken up to an
 - d. woke up to a
-

69. Select the correctly spelt word.

(+1, -0.25)

- a. Benificail
- b. Beneficial

c. Beneficial

d. Beneifical

-
70. 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)

The community members as well as teachers are presently into the bus station.

- a. No improvement required
- b. are presently on
- c. are present at
- d. is present at

-
71. 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)

The Crosses, the village (1) _____ Vasili Andreevich lived, consisted of six houses. As soon as they had passed the blacksmith's hut, (2) _____ last in the village, they realised that the wind was much stronger than they had thought. The road could hardly be seen. The tracks left by the sledge-runners were immediately (3) _____ by snow and the road was only (4) _____ by the fact that it was higher than the rest of the ground. There was a swirl of snow over the fields and the line where sky and earth met could not be (5) _____ .

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

- a. when

- b. we're
- c. where
- d. what

72. 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)

The Crosses, the village (1) _____ Vasili Andreevich lived, consisted of six houses. As soon as they had passed the blacksmith's hut, (2) _____ last in the village, they realised that the wind was much stronger than they had thought. The road could hardly be seen. The tracks left by the sledge-runners were immediately (3) _____ by snow and the road was only (4) _____ by the fact that it was higher than the rest of the ground. There was a swirl of snow over the fields and the line where sky and earth met could not be (5) _____.

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

- a. a
- b. an
- c. the
- d. one

73. 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)

The Crosses, the village (1) _____ Vasili Andreevich lived, consisted of six houses. As soon as they had passed the blacksmith's hut, (2) _____ last in the village, they realised that the wind was much stronger than

they had thought. The road could hardly be seen. The tracks left by the sledge-runners were immediately (3) _____ by snow and the road was only (4) _____ by the fact that it was higher than the rest of the ground. There was a swirl of snow over the fields and the line where sky and earth met could not be (5) _____ .

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

- a. exposed
- b. made
- c. covered
- d. highlighted

74. 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)

The Crosses, the village (1) _____ Vasili Andreevich lived, consisted of six houses. As soon as they had passed the blacksmith's hut, (2) _____ last in the village, they realised that the wind was much stronger than they had thought. The road could hardly be seen. The tracks left by the sledge-runners were immediately (3) _____ by snow and the road was only (4) _____ by the fact that it was higher than the rest of the ground. There was a swirl of snow over the fields and the line where sky and earth met could not be (5) _____ .

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

- a. anguished
- b. crushed
- c. extinguished

d. distinguished

75. 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)

The Crosses, the village (1) _____ Vasili Andreevich lived, consisted of six houses. As soon as they had passed the blacksmith's hut, (2) _____ last in the village, they realised that the wind was much stronger than they had thought. The road could hardly be seen. The tracks left by the sledge-runners were immediately (3) _____ by snow and the road was only (4) _____ by the fact that it was higher than the rest of the ground. There was a swirl of snow over the fields and the line where sky and earth met could not be (5) _____ .

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

- a. seeing
- b. see
- c. seen
- d. saw

General Awareness

76. Which of the following is an example of Phylum Mammalia of Animal Kingdom? (+1, -0.25)
- a. Hen
 - b. Crocodile
 - c. Pigeon
 - d. Rat
-
77. As per the 2011 Census, arrange the following languages in descending order of Speakers strength: Marathi, Hindi, Maithili. (+1, -0.25)
- a. Marathi, Hindi, Maithili
 - b. Marathi, Maithili, Hindi
 - c. Hindi, Maithili, Marathi
 - d. Hindi, Marathi, Maithili
-
78. Which Indian actress was also one of the dancer to be honoured with the 'Padma Shri' award in 1968? (+1, -0.25)
- a. Madhubala
 - b. Vyjayanthimala
 - c. Hema Malini
 - d. Sridevi
-

79. In the northern and north-western part of India, _____ is the main food crop. (+1, -0.25)

- a. Wheat
- b. Rice
- c. Maize
- d. millet

80. Lavani is the dance form of which state? (+1, -0.25)

- a. Gujarat
- b. Maharashtra
- c. Rajasthan
- d. Karnataka

81. Which team won the Indian Super League 2021-22? (+1, -0.25)

- a. Jamshedpur FC
- b. ATK Mohun Bagan
- c. Hyderabad FC
- d. Kerala Blasters FC

82. The terminology 'direct free kick' is associated with which sport? (+1, -0.25)

- a. Cricket
 - b. Badminton
 - c. Football
 - d. Hockey
-

83. Who among the following was conferred the Dadasaheb Phalke Award at the 67th National Film Awards ceremony? (+1, -0.25)

- a. Sanjay Dutt
 - b. S Shankar
 - c. Rajinikanth
 - d. Amitabh Bachchan
-

84. In which of the following states of India is the Gangaur festival celebrated? (+1, -0.25)

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

85. In November 2021, 'the Duare Ration' scheme was launched in _____. (+1, -0.25)

- a. Kerala

- b. Gujarat
 - c. West Bengal
 - d. Uttarakhand
-

86. The Mahabodhi Temple is an ancient Buddhist temple. It is situated in which state of India? (+1, -0.25)

- a. Rajasthan
 - b. Uttar Pradesh
 - c. Kerala
 - d. Bihar
-

87. Genghis Khan died in which year? (+1, -0.25)

- a. 1222
 - b. 1234
 - c. 1227
 - d. 1220
-

88. Who among the following is the author of the book 'Selection Day'? (+1, -0.25)

- a. Kiran Desai
- b. Vikram Seth
- c. Chetan Bhagat

d. Aravind Adiga

89. Who among the following freedom fighters was the first woman to become the Governor of Uttar Pradesh State? (+1, -0.25)

a. Sarojini Naidu

b. Raikumari Amrit Kaur

c. Sheila Dikshit

d. Kasturba Gandhi

90. The rhythmic rise and fall of ocean water twice in a day is called a (+1, -0.25)

a. fall

b. tide

c. wave

d. current

91. What is the draft of legislative proposal that needs to be passed in both houses of Parliament of India to become an Act called? (+1, -0.25)

a. Article

b. Amendment

c. Bill

d. Form

92. _____ is the market value of all final goods and services produced within a domestic territory of a country measured in a year. (+1, -0.25)

- a. Gross margin
- b. Gross Domestic Product (GDP)
- c. Net National Product (NNP)
- d. Gross National Product (GNP)

93. Which of the following is a biotic component of ecology? (+1, -0.25)

- a. Sunlight
- b. Carbonic substance
- c. Humidity
- d. Fungi

94. With which of the following musical instruments was Ustad Alla Rakha primarily associated? (+1, -0.25)

- a. Sitar
- b. Sarod
- c. Tabla
- d. Flute

95. What is Brahmaputra River called in Arunachal Pradesh? (+1, -0.25)

- a. Tsangpo
 - b. Purab Ganga
 - c. Dihang
 - d. Mandakini
-

96. Which feature of the Indian Constitution refers to the existence of more than one level of government in the country? (+1, -0.25)

- a. Radicalism
 - b. Federalism
 - c. Liberalism
 - d. Secularism
-

97. Which of the following rulers did NOT belong to Maurya dynasty? (+1, -0.25)

- a. Bindusara
 - b. Ashoka
 - c. Chandragupta
 - d. Bimbisara
-

98. Who among the following led of the famous Indigo Revolt in Bengal? (+1, -0.25)

- a. Mahatma Gandhi
- b. Bishnu Charan Biswas and Digambar Biswas

- c. Vasudev Balwant Phadke
 - d. Madari Pasi
-

99. With respect to occupation, secondary activities include _____. (+1, -0.25)

- a. fishing
 - b. construction work
 - c. administration
 - d. mining
-

100. Which of the following is an example of metalloid? (+1, -0.25)

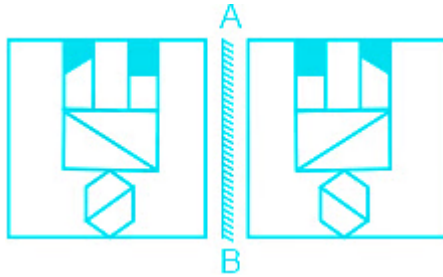
- a. Indium
- b. Gallium
- c. Boron
- d. Aluminium

Answers

1. Answer: d

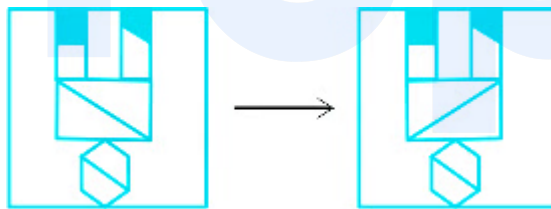
Explanation:

The mirror image of the given figure is:



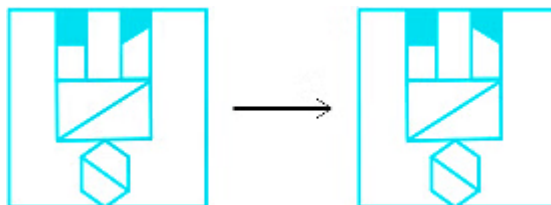
Now we compare the mirror image with the given option:

Option 1)



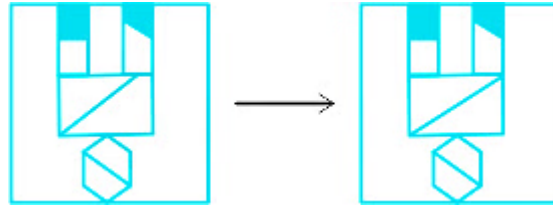
The diagonal in the rectangle is not placed right. This option is incorrect.

Option 2)



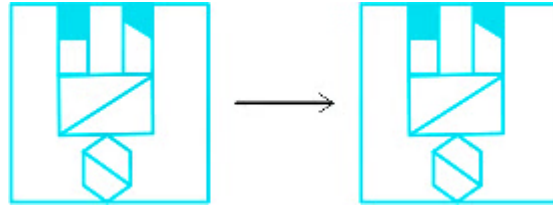
The dark region does not match. This option is incorrect.

Option 3)



The diagonal in the rectangle is not placed right. This option is incorrect.

Option 4)



The pattern matches completely.

Hence the correct answer is option 4.

2. Answer: b

Explanation:

The pattern in the given series is:

- In each step, the number of sides increase of the shape
- Number of sides = number of partition in that shape

For example: Triangle - number of sides 3, number of partition 3

The next step will be:

A heptagon (7 sides) will be placed since a hexagon was placed in the previous step.
There will be 7 partitions in the heptagon.

From the options:

Option 1)



This is an octagon with 9 partitions. This option is incorrect.
Option 2)



This is an heptagon with 7 partitions.
Option 3)



This is an octagon with 8 partitions. This option is incorrect.
Option 4)



This is an heptagon with 6 partitions. This option is incorrect.

Hence the correct answer is option 2.

3. Answer: c

Explanation:

Step 1: The score of B1 is greater than B7 and B3.

$$B1 > B7 > B3$$

Step 2: The score of B6 is neither more nor less than the score of B4 but more than B1.

$$B6 = B4 > B1$$

Step 3 : The score of B7 is not the least score.

$$B6 = B4 > B1 > B7 > B3$$

Step 4: B5 scored less than only one batsman.

The only batsman left is B2 which can't be placed at last and not in the middle because of no information. Therefore it will be placed at top,

$$B2 > B5 > B6 = B4 > B1 > B7 > B5 > B3$$

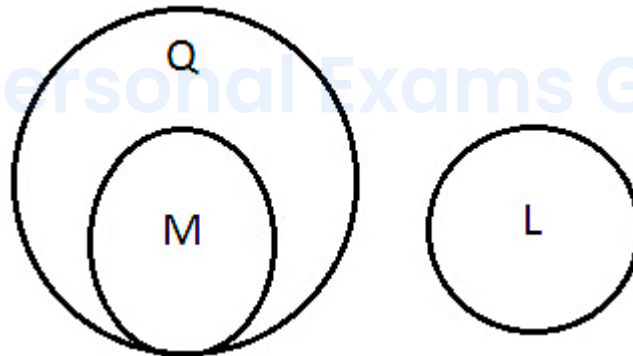
Since $B4 = B6$, there are only two batsman above B4.

Hence the correct answer is option 3.

4. Answer: b

Explanation:

From the given information, the Venn diagram is:



I. **No M is L**: According to the statements, no L is Q and all M are Q which can be stated as no M is L. Thus the conclusion follows.

II. **Some L are not M** : Since no M is L, it is safe to say that some L are not M. Thus the conclusion follows.

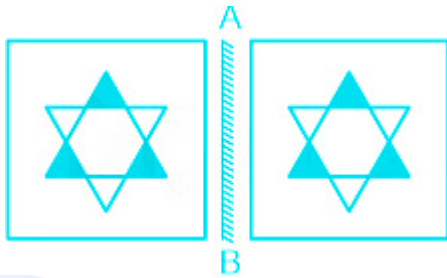
Both the conclusion follows.

Hence the correct answer is option 2.

5. Answer: c

Explanation:

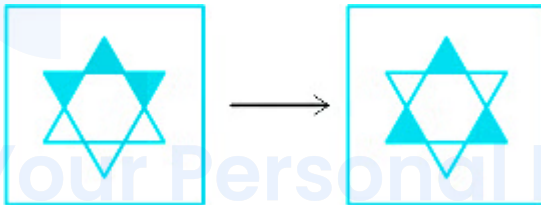
The mirror image of the given figure is:



Now we compare the pattern with the given options:

Option 1)

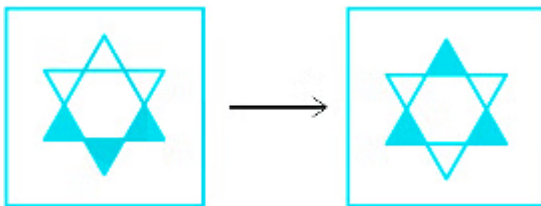
The shaded region is not in same pattern. This



option is incorrect.

Option 2)

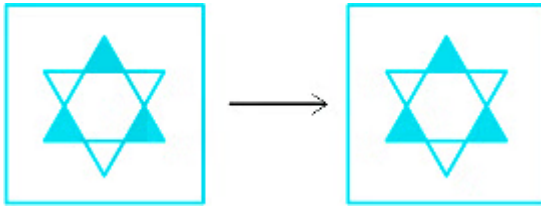
The shaded region is not in same pattern.



This option is incorrect.

Option 3)

The pattern matches completely.



Option 4)

The shaded region is not in same pattern.



This option is incorrect.

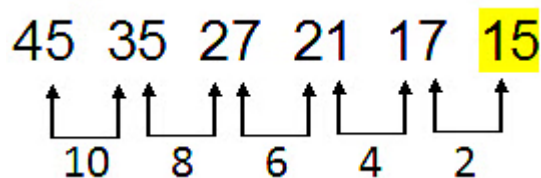
Hence the correct answer is option 3.

6. Answer: c

Explanation:

The pattern followed in the given series is:

The difference between the terms is decreasing by 2 after each step.



Hence the correct answer is option 3.

7. Answer: c

Explanation:

From the given information:

When we compare lines 1 and 3:

Ashok is big → pr 6 8
 Is big are → pr pt 8

We see that in line 1 Ashok is coded as 6.

When we compare lines 2 and 3:

Huge people are strong → lm pt 7 @
 Is big are → pr pt 8

Here we can see that people can be coded as lm, 7, @.

So for Ashok people, code can be 6 @, 6 7 or 6 lm.

From the given option we compare and find:

6 lm is the only option that matches.

Hence the correct answer is option 3.

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8. Answer: a

Explanation:

The relation used in the given series is:

The game : The essential object used to play that game

Cricket : Bat -- **Cricket** is played with the help of a **bat** .

Hockey : Stick -- **Hockey** is played with the help of a **stick** .

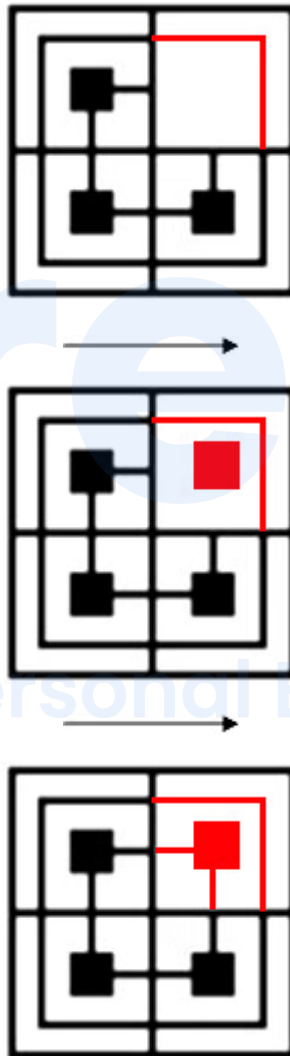
Rugby : ? -- **Rugby** is played with the help of a **ball** .

Hence the correct answer is option 1)

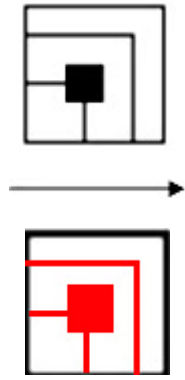
9. Answer: a

Explanation:

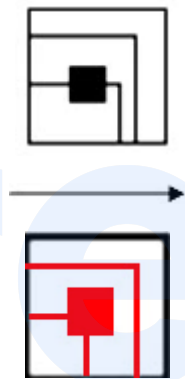
The missing pattern will be:



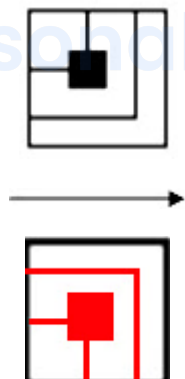
Now we compare the pattern with the given options:
Option 1)



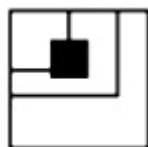
The pattern matches completely.
Option 2)



The pattern is non-symmetrical. This option is incorrect.
Option 3)



The pattern is inverted. This option is incorrect.
Option 4)





The pattern is inverted and non-symmetrical. This option is incorrect.

Hence the correct answer is option 1.

10. Answer: d

Explanation:

The pattern followed in the given series is:

$$(\text{First term})^2 \times 7^2 = \text{Second term}$$

Now we apply the pattern on the series:

$$7 : 2401 :: 3 : 441 :: 5 : ?$$

$$(\text{First term})^2 \times 7^2 = \text{Second term}$$

$$(7)^2 \times 7^2 = 2401$$

$$49 \times 49 = 2401$$

$$2401 = 2401$$

$$7 : 2401 :: 3 : 441 :: 5 : ?$$

$$(\text{First term})^2 \times 7^2 = \text{Second term}$$

$$(3)^2 \times 7^2 = 441$$

$$9 \times 49 = 441$$

$$441 = 441$$

$$7 : 2401 :: 3 : 441 :: 5 : ?$$

$$(\text{First term})^2 \times 7^2 = \text{Second term}$$

$$(5)^2 \times 7^2 = \text{Answer}$$

$$25 \times 49 = \text{Answer}$$

$$1225 = \text{Answer}$$

Hence the correct answer is option 4.

11. Answer: c

Explanation:

From the given information:
When we compare lines 1 and 3,

nu **vu** du → Please ask **Hamza**
tu **vu** ru → Give **Hamza** Book

We get, Hamza is coded as vu.

When we compare lines 1 and 2,

hu du **ru** → **Give** water please
tu **vu** **ru** → **Give** **Hamza** Book

We get, give is coded as ru.

Now in line 3 the only word left is book and only code left is tu.

We can say that, Book is coded as tu.

Hence the correct answer is option 3.

12. Answer: c

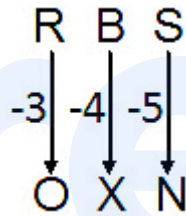
Explanation:

According to the English alphabets and their positional values:

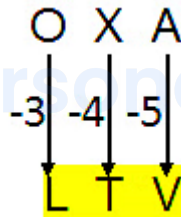
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The pattern followed in the given cluster is:

- First alphabet is decreased to 3 positional values.
- Second alphabet is decreased to 4 positional values.
- Third alphabet is decreased to 5 positional values.



Similarly,











Hence the correct answer is option 3.

13. Answer: a

Explanation:

We compare each option with the given figure:

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

Hence the correct answer is option 1.

14. Answer: b

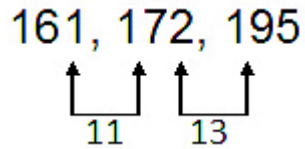
Explanation:

The pattern followed in the given set is:

The difference between the terms is 11.

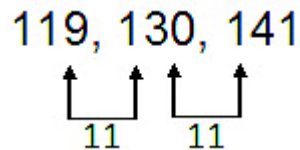
Now we compare each option with the pattern:

Option 1) (161, 172, 195)



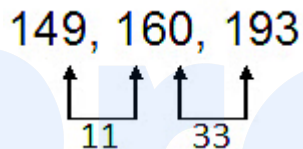
The pattern does not match.

Option 2) (119, 130, 141)



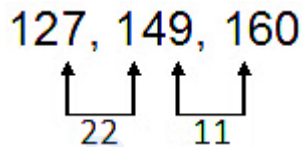
The pattern matches completely.

Option 3) (149, 160, 193)



The pattern does not match.

Option 4) (127, 149, 160)



The pattern does not match.

Hence the correct answer is option 2)

15. Answer: a

Explanation:

When we interchange \div and \times and solve the equation using BODMAS rule, we get:

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

$$5 + 10 \div 8 \times 2 - 20$$

$$5 + 10 \times 8 \div 2 - 20$$

$$5 + 10 \times 4 - 20$$

$$5 + 40 - 20$$

$$45 - 20$$

$$\text{Answer} = 25$$

Hence the correct answer is option 1.

16. Answer: a

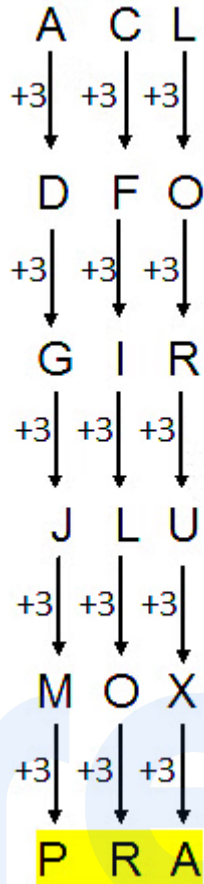
Explanation:

According to the English 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 series is:

The alphabets are increased to 3 positional values.



Hence the correct answer is option 1.

17. Answer: c Your Personal Exams Guide

Explanation:

According to the English 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 words is:

Sum of positional values of all the letter - Number of letters = Code

$$\begin{array}{ccccc} A & D & U & L & T \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1 & 4 & 21 & 12 & 20 \end{array} = 58$$

$$58 - 5 = 53$$

$$\begin{array}{cccc} L & A & C & K \\ \downarrow & \downarrow & \downarrow & \downarrow \\ 12 & 1 & 3 & 11 \end{array} = 27$$

$$27 - 4 = 23$$

Similarly,

$$\begin{array}{cccccc} H & E & A & V & E & N \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 8 & 5 & 1 & 22 & 5 & 14 \end{array} = 55$$

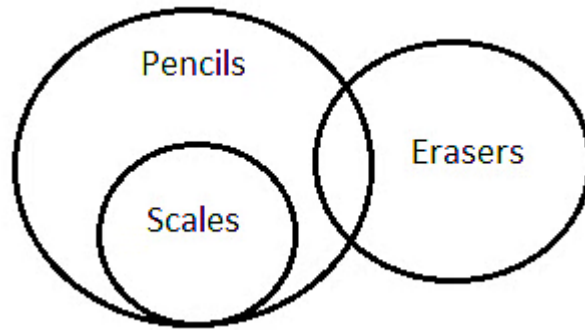
$$55 - 6 = 49$$

Hence the correct answer is option 3.

18. Answer: b

Explanation:

From the given statements, the Venn diagram is:



I: Some scales are erasers: From the statements, we have 'all scales are pencils' & 'some pencils are erasers', but there is no relation between scales and erasers, therefore some scales are erasers is not correct. Thus conclusion does not follow.

II: Some pencils are scales: Since 'all scales are pencils' it is safe to say that some pencils are scales. So the conclusion follows.

Only conclusion II follows.

Hence the correct answer option 2)

19. Answer: c

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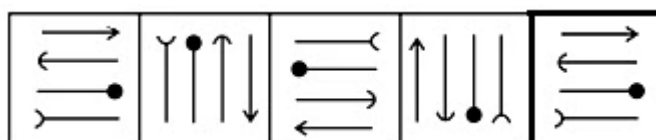
Explanation:

The pattern followed in the given series is:

- Arrow with the black dot changes the direction of its head in each step.
- Rest of the arrows moves in clockwise direction.

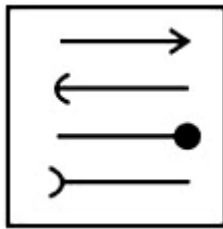
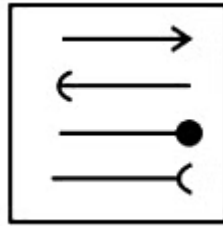
Next step will be:

Since the motion is in clockwise direction, the arrows will repeat the first step. Arrow with black dot will change the direction of its head to right.



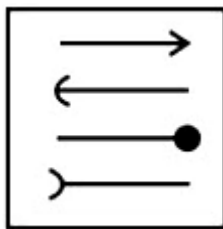
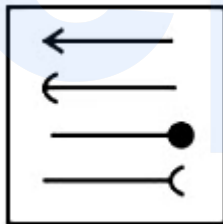
Now we compare the pattern with the given options:

Option 1)



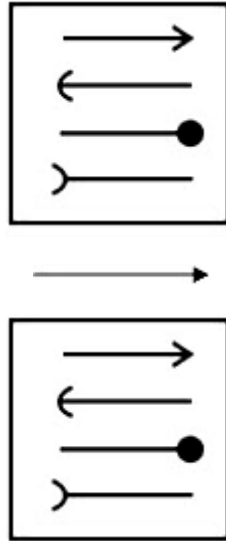
The heads of the arrows are placed incorrectly.

Option 2)

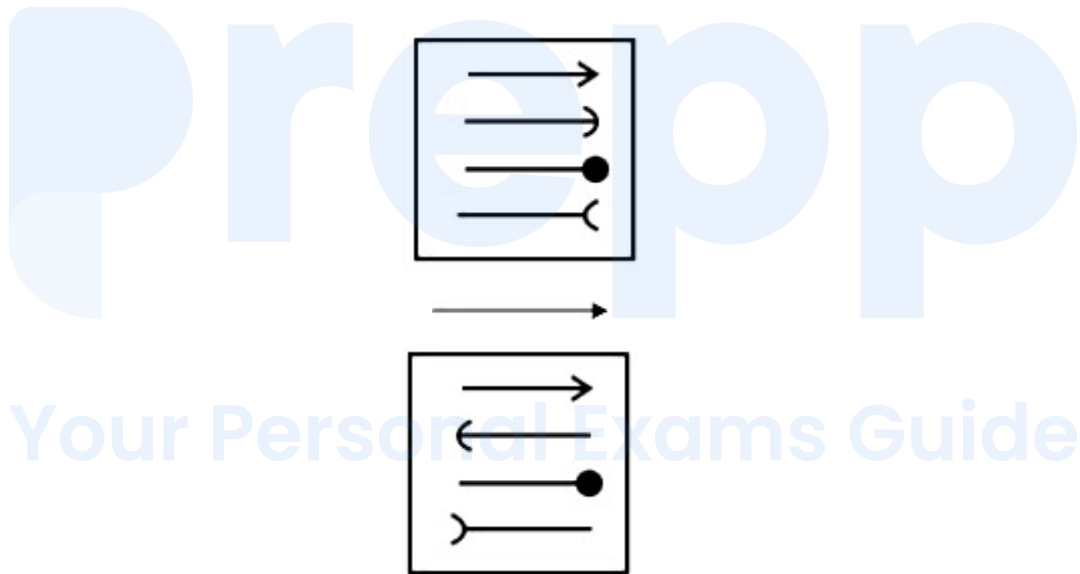


The heads of the arrows are placed incorrectly.

Option 3)



The pattern matches completely.
Option 4)



The heads of the arrows are placed incorrectly.
Hence the correct answer is option 3)

20. Answer: c

Explanation:

We apply each option and solve the given equation using BODMAS rule:

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

Option 1) 9 and 7

$$81 + \underline{31 \div 7} - 9 = 33$$

$$\underline{81 + 4.4} - 9 = 33$$

$$\underline{85.4 - 9} = 33$$

$$76.4 \neq 33$$

Option 2) 31 and 9

$$81 + \underline{9 \div 31} - 7 = 33$$

$$\underline{81 + 0.2} - 7 = 33$$

$$\underline{81.2 - 7} = 33$$

$$74.2 \neq 33$$

Option 3) 31 and 81

$$31 + \underline{81 \div 9} - 7 = 33$$

$$\underline{31 + 9} - 7 = 33$$

$$\underline{40 - 7} = 33$$

$$33 = 33$$

Option 4) 81 and 7

$$7 + \underline{31 \div 9} - 81 = 33$$

$$\underline{7 + 4.4} - 81 = 33$$

$$\underline{11.4 - 81} = 33$$

$$-69.6 \neq 33$$

Hence the correct answer is option 3.

21. Answer: b

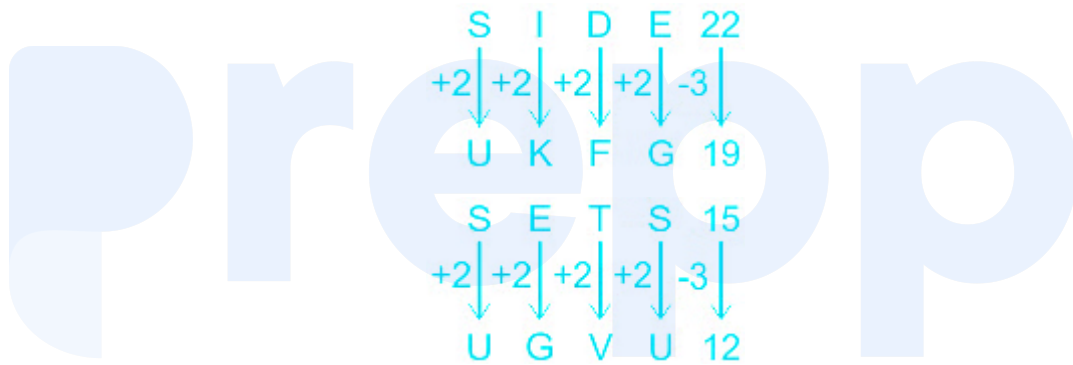
Explanation:

According to the English 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 series is:

The alphabets are increased to 2 positional values and number is subtracted by 3.



Similarly, Your Personal Exams Guide



Hence the correct answer is option 2.

22. Answer: b

Explanation:

From the given information:

When we compare the given sentences, we get:



In line 1, sand is coded as 9

So, there are only two possible codes for hot i.e. 6 or 8.

Hence the correct answer is option 2.

23. Answer: c

Explanation:

All of them are facing south,

Step 1: K is at the rightmost end.

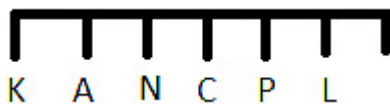
Step 2: A is the immediate neighbour of K.



Step 3: Only N is between A and C.

Step 4: Only P is between L and C.

Step 5: L is to the immediate left of P.



The only girl left is V and there is only 1 spot left.



Now according to the diagram, we check the statements:

I. P is third to the left of A: **True**.

II. N is to the immediate right of C: **True**.

Both statements are true.

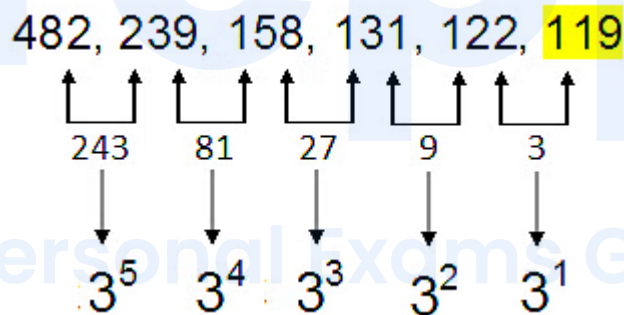
Hence the correct answer is option 3.

24. Answer: b

Explanation:

The pattern followed in the given series is:

The difference between the terms is a multiple of 3 and it decreases with each step.



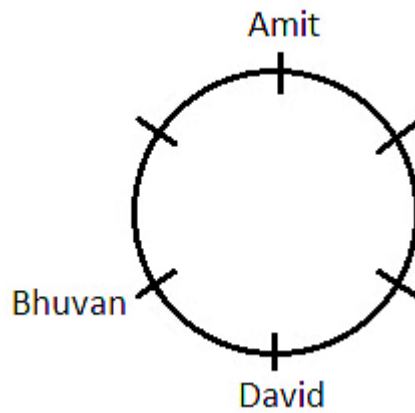
Hence the correct answer is option 2.

25. Answer: b

Explanation:

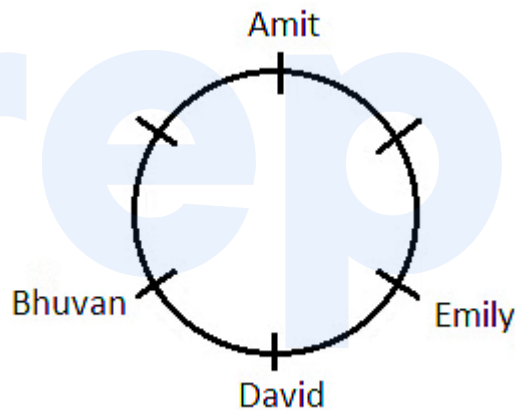
Step 1: Amit sits third to the left of David.

Step 2: David sits to the immediate right of Bhuvan.



We place David at a spot and then place Amit to his third left. Then we place Bhuvan to David's left.

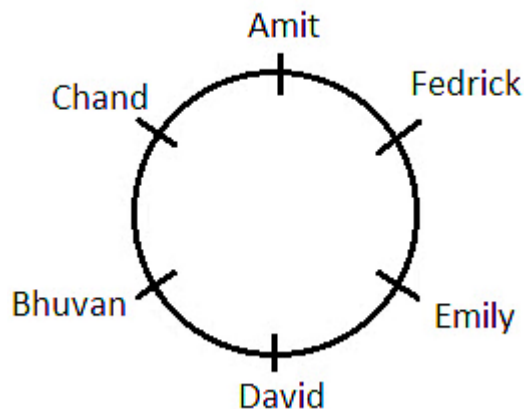
Step 3: Bhuvan sits second to the left of Emily.



Now we place Emily to Bhuvan's second right.

Step 4: Chand sits second to the right of Fedrick.

Now only two spots are left and we have two people to place.



Here we place Fedrick and then place Chand to his second left.
From the diagram, we can see that **Bhuvan is second to the right of Amit.**

Hence the correct answer is option 2.

26. Answer: c

Explanation:

Given:- Selling price = 140% of cost price

Formula used:- Profit% = $\frac{SP-CP}{CP} \times 100$

Calculation:-

Let the cost price of the plate is Rs. 100

Then,

$$SP = 140\% CP$$

$$SP = \frac{140}{100} \times 100$$

$$SP = \text{Rs.}140$$

The selling price of the plate is Rs. 140

$$\text{Profit\%} = \frac{SP-CP}{CP} \times 100$$

$$\text{Profit\%} = \frac{140-100}{100} \times 100$$

$$\text{Profit\%} = 40\%$$

The percentage profit on the plate is 40%.

27. Answer: c

Explanation:

Given:-

N men can complete the work in 15 days,

Formula used:-

work done = efficiency \times time

Calculation:-

Let the efficiency of 1 man be ' E ',

Total work done by N men = $N \times E \times 15 = 15NE$

Total work done by N men in 3 days = $3NE$

After 3 days 5 men left the work. Remaining workers = $N - 5$

The remaining work is completed in 18 days by $(N - 5)$ workers,

$$\Rightarrow 3NE + 18 \times (N - 5) \times E = 15NE$$

$$\Rightarrow 18(N - 5) = 12N$$

$$\Rightarrow 18N - 90 = 12N$$

$$\Rightarrow 6N = 90$$

$$\Rightarrow N = 15$$

The required value of N is 15.

28. Answer: c

Explanation:

Given:-

A table consisting marks obtained by Anoop in class X.

Formula used:-

$$\text{percentage} = \frac{\text{scored marks}}{\text{total marks}} \times 100$$

Solution:-

The total marks out of which Anoop scored = 100 + 100 + 150 + 50 + 50

Total Marks = 450

Total scored marks = 74 + 84 + 124 + 36.4 + 47

Total scored marks = 74 + 84 + 124 + 36.4 + 47 = 365.4

$$\Rightarrow \% \text{ Marks} = \frac{365.4}{450} \times 100$$

$$\Rightarrow \% \text{ Marks} = 81.2$$

Anoop scored 81.2% marks in all five subjects together.

29. Answer: a

Explanation:

Given:-

C.I. for second year = ₹400

C.I. for fourth year = ₹576

Formula used:-

$$\text{Amount}(A) = P(1 + r/100)^t$$

$$\text{C.I.} = \text{Amount}(A) - \text{Principle}(P)$$

Solution:-

According to question-

For second year,

$$\Rightarrow 400 = P(1 + r/100)^2 - P(1 + r/100)^1$$

$$\Rightarrow 400 = P(1 + r/100)[(1 + r/100) - 1] \dots(1)$$

For fourth year,

$$\Rightarrow 576 = P(1 + r/100)^4 - P(1 + r/100)^3$$

$$\Rightarrow 576 = P(1 + r/100)^3[(1 + r/100) - 1] \dots(2)$$

From Eqn(2)/Eqn(1)

$$\Rightarrow 576/400 = (1 + r/100)^2$$

\therefore P and $[(1 + r/100) - 1]$ are eliminated

$$\Rightarrow 24/20 = 1 + r/100$$

$$\Rightarrow r/100 = (24 - 20)/20$$

$$\Rightarrow r/100 = 4/20$$

$$\Rightarrow r = 20\%$$

\therefore Required rate of interest is 20%.

30. Answer: d

Explanation:

Given:-

$(1 \div 2)$ of 10 + $(1 \div 4)$ of 12 .

Concept used:-

BODMAS rule.

Calculation:-

By using the concept of BODMAS,

$$\Rightarrow (1 \div 2) \text{ of } 10 + (1 \div 4) \text{ of } 12$$

$$\Rightarrow \frac{1}{2} \times 10 + \frac{1}{4} \times 12$$

$$\Rightarrow 5 + 3$$

$$\Rightarrow 8$$

The value of the expression is 8.

31. **Answer: a**

Explanation:

Given:

Total number of books = 9

Mean of first 5 books = 430

Mean of last 5 books = 380

Mean of total number of pages in all 9 books = 400

Concept Used:

Average = Total sum of values \div Number of values

Calculation:

Total number of pages in first 5 books = $430 \times 5 = 2150$

Total number of pages in last 5 books = $380 \times 5 = 1900$

Total number of pages in all 9 books = $400 \times 9 = 3600$

Number of pages in the fifth book = $(2150 + 1900) - 3600$

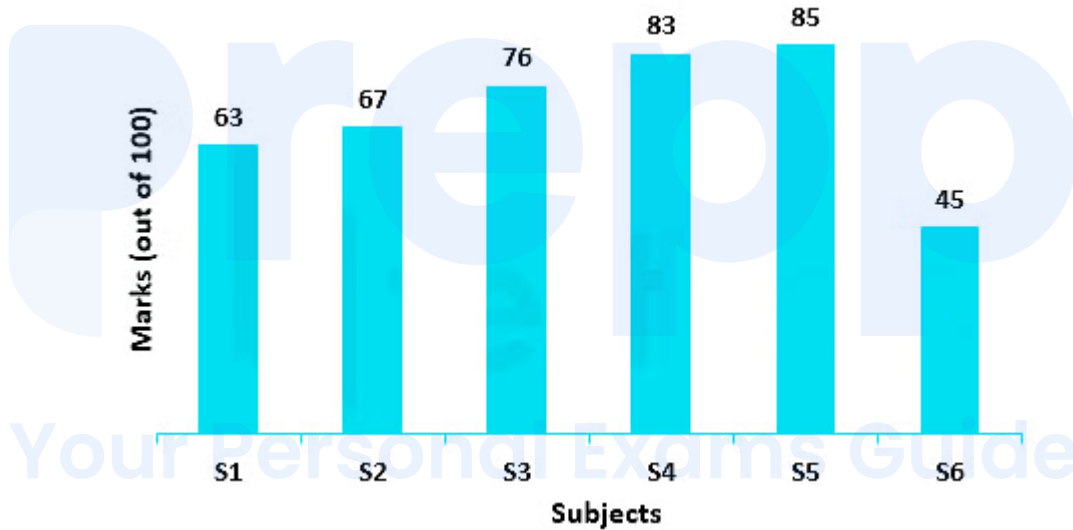
Number of pages in the fifth book = $4050 - 3600 = 450$

Hence, the number of pages in the fifth book is 450.

32. Answer: c

Explanation:

Given:



Calculation:

Total marks obtained in S2 = 67

Total marks obtained in S4 = 83

So, Total marks obtained in S2 and S4 = $67 + 83 = 150$

Total marks obtained in S5 = 85

Percentage of marks obtained more than S5 by S2 and S4 students = $\frac{150-85}{85} \times 100 =$

$$\frac{65}{85} \times 100$$

Percentage of marks obtained more than S5 by S2 and S4 students = 76.47%

Hence, the required percentage is 76.47%.

33. Answer: a

Explanation:

Given:

Speed of boat going downstream = 22 km/h

Speed of stream = 1 km/h

Concept Used:

Speed of stream = $\frac{1}{2}$ (Downstream Speed – Upstream Speed)

Speed = Distance \div Time

Calculation:

Putting the values in the formula,

$$\Rightarrow 1 = \frac{1}{2} (22 - \text{Upstream speed})$$

$$\Rightarrow 2 = 22 - \text{Upstream speed}$$

$$\text{Upstream speed} = 22 - 2 = 20 \text{ km/h}$$

Now, for downstream distance travelled in 3 hours,

$$\Rightarrow 22 = \frac{\text{Distance}}{3}$$

$$\text{Distance} = 22 \times 3 = 66 \text{ km}$$

For upstream distance travelled in 2 hours,

$$\Rightarrow 20 = \frac{\text{Distance}}{2}$$

$$\text{Distance} = 20 \times 2 = 40 \text{ km}$$

$$\text{Total distance travelled both upstream and downstream} = 66 + 40 = 106 \text{ km}$$

Hence, the total distance covered by boat is 106 km.

34. Answer: a

Explanation:

Given:

Number of days taken by S to complete the work = 14 days

Number of days taken by T to complete the work = 21 days

Number of days taken by U to complete the work = 28 days

Calculation:

$$\text{Work done by S in each day} = \frac{1}{14} \text{ units/day}$$

$$\text{Work done by T in each day} = \frac{1}{21} \text{ units/day}$$

$$\text{Work done by U in each day} = \frac{1}{28} \text{ units/day}$$

$$\text{Work done together by S, T and U each day} = \frac{1}{14} + \frac{1}{21} + \frac{1}{28}$$

Taking LCM of the denominators, we get

Work done together by S, T and U each day

$$= \frac{6+4+3}{84} = \frac{13}{84} \text{ units/day}$$

$$\text{So, whole work completed by S, T and U working together in} = \frac{1}{\frac{13}{84}} = \frac{84}{13} \text{ days}$$

Hence, required number of days to complete the work is $\frac{84}{13}$ days.

35. Answer: a

Explanation:

Given:

$$A = \frac{2}{3} \div \frac{4}{9}$$

$$B = \frac{6}{11} \times \frac{33}{12}$$

$$C = \frac{1}{3} \times \frac{9}{2}$$

Calculation:

$$\Rightarrow A \times B - C = \left(\frac{2}{3} \div \frac{4}{9}\right) \times \left(\frac{6}{11} \times \frac{33}{12}\right) - \left(\frac{1}{3} \times \frac{9}{2}\right)$$

$$\Rightarrow \left(\frac{2}{3} \times \frac{9}{4}\right) \times \frac{3}{2} - \frac{3}{2}$$

$$\Rightarrow \frac{3}{2} \times \frac{3}{2} - \frac{3}{2} = \frac{9}{4} - \frac{3}{2}$$

$$\Rightarrow \frac{9}{4} - \frac{3}{2} = \frac{9-6}{4} = \frac{3}{4}$$

Hence, the required value of the expression is $\frac{3}{4}$.

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36. Answer: a

Explanation:

Given:

Marked price of pen = 25% more than cost price

Selling Price of pen = Rs 220

Discount = Rs 30

Concept Used:

$$\text{Profit Percentage} = \frac{\text{Profit}}{\text{CP}} \times 100$$

Calculation:

Let the cost price of the pen be Rs x

Marked Price of pen = $x + 25\%$ of x

$$\text{Marked Price of pen} = x + \frac{25}{100} \times x = x + \frac{x}{4} = \frac{5x}{4} \text{ Rs.}$$

Now, Marked Price = SP + Discount = $220 + 30 = \text{Rs. } 250$

Equating the values of MP,

$$\Rightarrow \frac{5x}{4} = 250$$

$$\Rightarrow x = \frac{250 \times 4}{5} = 200$$

$$\text{Profit} = \text{SP} - \text{CP} = 220 - 200 = \text{Rs } 20$$

$$\text{Profit \%} = \frac{20}{200} \times 100 = 10\%$$

Hence, the profit percentage for selling the pen is 10%.

37. Answer: c

Explanation:

Given:

Monthly income = Rs 15,000

Savings = 20% of income

Increase in income = 10%

Calculation:

Income after increase of 10% = $15000 + 10\%$ of 15000

$$\text{Income after increase} = 15000 + \frac{10}{100} \times 15000$$

$$= 15000 + 1500 = \text{Rs. } 16500$$

As given, the savings remain the same,

So, Savings after increase = 20% of 15000

$$\text{Savings after increase} = \frac{20}{100} \times 15000 = 3000$$

$$\text{Now, New monthly expenditure} = 16500 - 3000 = \text{Rs } 13,500$$

Hence, the new monthly expenditure will be Rs 13,500.

38. Answer: d

Explanation:

Given:

$$\text{Curved Surface Area of cylinder} = 1320 \text{ cm}^2$$

$$\text{Height of cylinder} = 10 \text{ cm}$$

Concept Used:

$$\text{Curved Surface Area of Cylinder} = 2\pi rh$$

$$\text{Volume of cylinder} = \pi r^2 h$$

Calculation:

$$\text{Curved Surface Area} = 2 \times \frac{22}{7} \times r \times 10$$

$$\Rightarrow \frac{44}{7} \times r \times 10 = 1320$$

$$\Rightarrow r = \frac{1320 \times 7}{44 \times 10} = 21 \text{ cm}$$

$$\text{Volume of Cylinder} = \frac{22}{7} \times 21 \times 21 \times 10$$

$$\text{Volume of Cylinder} = 22 \times 21 \times 30 = 13860 \text{ cm}^3$$

Now, to change cm^3 to m^3 , we should divide it by 1000000

$$\text{So, } 13860 \text{ cm}^3 = \frac{13860}{1000000} = 0.01386 \text{ m}^3.$$

Hence, the volume of a cylinder is 0.01386 m^3 .

39. Answer: a

Explanation:

Given:

Average age of 5 children = 10 years

Addition of two children = 11 years and 16 years

Concept Used:

Average = Total sum of values \div Total number of values

Calculation:

Sum of ages of 5 children = $10 \times 5 = 50$ years

New sum of ages after addition of 11 years and 16 years children,

Sum of ages = $50 + 11 + 16 = 77$ years

Total number of children = 7

New average age = $\frac{77}{7} = 11$ years.

Hence, the new average age of all children is 11 years.

40. Answer: d

Explanation:

Given:

Two distinct prime numbers = K_1 and K_2

Concept Used:

Prime numbers are those numbers that have only two factors, 1 and the number itself.

Calculation:

Factors of $K_1 = 1 \times K_1$

Factors of $K_2 = 1 \times K_2$

So, Highest Common Factor of K_1 and $K_2 = 1$

Least common multiple of K_1 and $K_2 = K_1 \times K_2$

Then, Product of HCF and LCM of K_1 and K_2

$= 1 \times K_1 \times K_2$

$= K_1 \times K_2$

Hence, the product of highest common factor and least common multiple of distinct prime numbers K_1 and K_2 is $K_1 \times K_2$.

41. Answer: c

Explanation:

Given:

Ratio of parrots and pigeons on tree = 7 : 9

Number of parrots flew after an hour = 8

Number of pigeons and sparrows sat on the tree = 6 and 10

New ratio of parrots and pigeons on tree = 1 : 4

Calculation:

Let the number of parrots initially be $7x$ and pigeons be $9x$.

After an hour, Number of parrots = $7x - 8$

After an hour, Number of pigeons = $9x + 6$

$$\text{New Ratio} = \frac{7x-8}{9x+6} = \frac{1}{4}$$

$$\Rightarrow 4(7x - 8) = 9x + 6$$

$$\Rightarrow 28x - 32 = 9x + 6$$

$$\Rightarrow 28x - 9x = 6 + 32 = 38$$

$$\Rightarrow x = \frac{38}{19} = 2$$

Number of parrots on tree now = $7 \times 2 - 8 = 14 - 8 = 6$

Number of sparrows on tree = 10

Ratio of number of parrots to number of sparrows

$$= \frac{6}{10} = 3 : 5$$

Hence, the ratio of number of parrots to the number of sparrows on tree is 3 : 5.

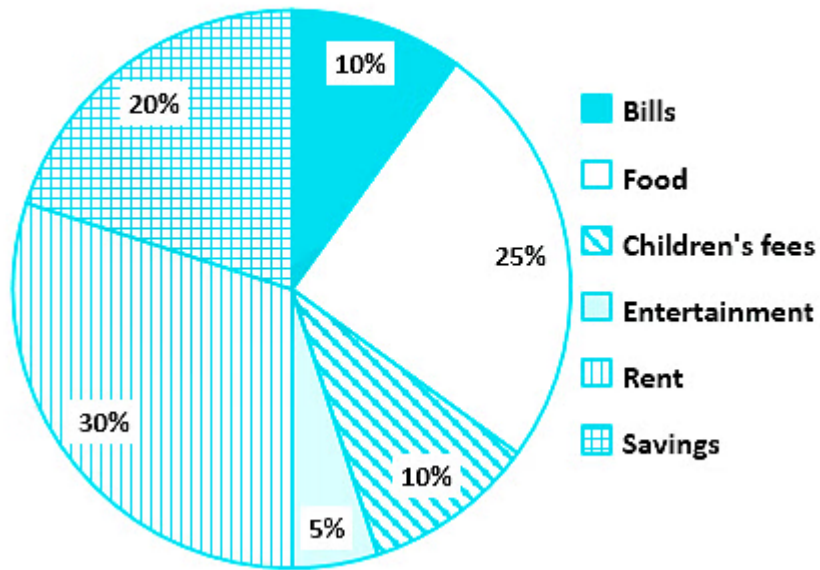
42. Answer: d

Explanation:

Given:

The following pie-chart shows the distribution of the monthly income of a man. The monthly income of the man is ₹84,000.

Distribution of the monthly income



Calculation:-

We know that

Childrens fees = 10% of income

Fees = 10% of 84000

Fees = $0.10 \times 84000 = \text{Rs. } 8400$ per month

For 1 year expense on fees = $8400 \times 12 = \text{Rs. } 100800$

\therefore He spend Rs. 100800 on children's fees in a year.

43. Answer: d

Explanation:

Given:

Speed of stream = 6km/h

Distance = 9km

Time to comes back to the starting Point = 2 hours

Formula used:

Upstream Speed = Speed of boat – Speed of Stream

Downstream Speed = Speed of boat + Speed of Stream

Time = Distance/speed

Calculation:

Let the speed of the boat = x km/h

Speed of current = 6 km/h

Speed upstream = (x – 6) km/h

Speed downstream = (x + 6) km/h

Time upstream + Time downstream = 2 hours

$$\frac{9}{x-6} + \frac{9}{x+6} = 2$$

$$\Rightarrow 9(x + 6 + x - 6) = 2(x^2 - 36)$$

$$\Rightarrow 9(2x) = 2x^2 - 72$$

$$\Rightarrow 2x^2 - 18x - 72 = 0$$

$$\Rightarrow x^2 - 9x - 36 = 0$$

$$\Rightarrow x^2 - 12x + 3x - 36 = 0$$

$$\Rightarrow x(x - 12) + 3(x - 12) = 0$$

$$\Rightarrow (x - 12)(x + 3) = 0$$

$$\Rightarrow x = 12$$

Hence, The Required speed of boat in still water is 12 Km/h.

44. Answer: b

Explanation:

Given:

The area of a parallelogram is 508 m²

Base = 40 m

Formula used:

Area of Parallelogram = base × height

Calculations:

According to the question,

$$\text{Area} = B \times H$$

$$\Rightarrow 508 = 40 \times H$$

$$H = 508/40 = 12.7 \text{ m}$$

∴ The corresponding height of the parallelogram is 12.7 m.

45. Answer: b

Explanation:

Given:

Bruce's money = 30% of Mr. Stark's money

He also gave 30% of the remaining amount to each Natasha, Captain and Vision.

The remaining amount = ₹ 14,000 = deposited in Marvel's Fund.

Calculation:

Let the total money be 'x'

He gave 30% to Bruce = 30% of x = 0.30x

Remaining amount = $x - 0.30x = 0.70x$

He gave 30% of remaining money to Natasha

= $3 \times (30\% \text{ of } 0.70x)$

= $3 \times (0.21x) = 0.63x$

Remaining amount = $0.70x - 0.63x = 0.07x$

He spent half of remaining money on miscellaneous items

= 50% of $0.07x = 0.035x$

Remaining amount deposited to marvel fund = Rs. 14000

$\Rightarrow 0.07x - 0.035x = 14000$

$\Rightarrow 0.035x = 14000$

$x = 14000/0.035 = \text{Rs. } 400000$

\therefore Mr. Stark initially had Rs. 400000.

46. Answer: d

Explanation:

Given:

The average of 8 consecutive integers is $\frac{27}{2}$

Calculations:

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

$$\text{Average} = [x+(x+1)+(x+2)+(x+3)+(x+4)+(x+5)+(x+6)+(x+7)]/8 = 27/2$$

$$\Rightarrow (8x+28) = (27/2) \times 8$$

$$\Rightarrow 8x = 108 - 28$$

$$\Rightarrow x = 80/8 = 10$$

the largest four of these integers

$$= (x+4) + (x+5) + (x+6) + (x+7)$$

$$= 14 + 15 + 16 + 17$$

Average of the first three integers

$$= (14 + 15 + 16 + 17)/4$$

$$= 62/4 = 15.5$$

\therefore Required Average is 15.5.

47. Answer: b

Explanation:

Given:

Time = 2 years

Rate = 10%

Amount = Rs. 4800

Formula used:-

Simple interest = A - P

Your Personal Exams Guide

$$\text{Simple interest} = (PRT)/100$$

Calculation:-

According to the question,

$$SI = 4800 - P$$

$$\Rightarrow (P \times 10 \times 2)/100 = 4800 - P$$

$$\Rightarrow 20P/100 = 4800 - P$$

$$\Rightarrow P/5 + P = 4800$$

$$\Rightarrow 6P/5 = 4800$$

$$P = (5 \times 4800)/6$$

$$P = 5 \times 800 = \text{Rs. } 4000$$

\therefore The sum invested was Rs. 4000.

48. Answer: a

Explanation:

Given:

$$A : B = 3 : 4$$

$$B : C = 1 : 5$$

Calculations:

We know that,

$$A/B = 3/4$$

$$B = 4A/3$$

According to the question,

$$B/C = 1/5$$

$$\Rightarrow (4A/3)/C = 1/5$$

$$A : C = 3 : 20$$

$$\therefore A : C = 3 : 20.$$

49. Answer: c

Explanation:

Given:

Kisna buys cow for Rs. 15,000,

he sells it for Rs.18,500

and buys again at Rs.19,000

And sells again at Rs.22,300

Calculations:

Total CP

$$= \text{Rs. } 15,000 + \text{Rs. } 19,000$$

$$= \text{Rs. } 34,000$$

Total SP

$$= \text{Rs. } 18,500 + \text{Rs. } 22,300$$

$$= \text{Rs. } 40,800$$

Total profit percentage

$$\begin{aligned} &= \frac{SP-CP}{CP} \times 100 \\ &= \frac{40,800-34,000}{34,000} \times 100 \\ &= \frac{6,800}{34,000} \times 100 \\ &= 0.2 \times 100 \\ &= 20\% \end{aligned}$$

Hence, Total profit percentage is 20% .

50. Answer: c

Explanation:

Given:

A large solid cube is melted and cast into 'N' small solid spheres, each of radius 3 cm,

and 'N + 2' small solid cuboids, each of dimensions 4 cm × 4 cm × 6.5 cm.

The length of each side of the large solid cube is 12 cm

Calculations:

According to question,

Volume of cube = volume of N-solid sphere + Volume of (N + 2) small cuboid

$$\Rightarrow 12 \times 12 \times 12 = N \left\{ \frac{4}{3} \pi 3^3 \right\} + (N + 2)(4 \times 4 \times 6.5)$$

$$\Rightarrow 1728 = 36N\pi + 104N + 208$$

$$\Rightarrow 1520 = N \left(36 \times \frac{22}{7} + 104 \right)$$

$$\Rightarrow 1520 = \frac{1520}{7} N$$

$$\Rightarrow N = 7$$

∴ The value of N is 7.

51. Answer: c

Explanation:

The correct answer is Mistreat someone in the same way they have treated others

★ Key Points

- **Idioms** are a collection of words established by usage as having a meaning distinct from the meanings of the individual words.
- The **meaning of the above idiom** is treating someone the same way they treat others.
- Some *examples* of idioms are a **piece of cake, go down in flames, on cloud nine.**

★ Additional Information

Some more keywords on word **medicine** are :

- Laughter is the best medicine - laughing is healthy

Example: My teacher told me **laughter is the best medicine.**

- In the best of health - Very healthy

Example: Lisa is in **the best of health** after her recovery.

- Feel on the Top of world - Feeling very healthy

Example: I **feel on the top of the world** after taking these medicines.

52. Answer: c

Explanation:

The correct answer is country population

★ Key Points

- In the above sentence instead of **country population** it should be **countries population**.
- When there is a **vowel** (a, e, i, o, u) before the letter 'y,' the letter 's' is added. When a **consonant** (b, c, d, f, g, h, j, k, l, m, n, p, q, r, s, t, v, w, x, y, z) comes before the letter 'y,' you remove it and replace it with 'ies.'
- *Example* : Country - Countries , Abbey - abbes.

★ Additional Information

- In English, a, e, i, o, u are **vowels** .
- All the other alphabets left are **consonants** .
- The **meaning** of above sentence is that Uttar Pradesh have about 16 per cent of the countries population.

53. Answer: b

Explanation:

The correct answer is Heirs

★ Key Points

- The word **Heir** means a person who is legally entitled to another's property or rank upon that person's death.
- *Example* : My son is the only **Heir** of our family.
- *Homonyms* are words that sound or are spelled similarly but have different meanings.
- *Example* :Hares, Hair , Heirs

★ Additional Information

- The word **hair** means fine threadlike strands that grow from the skin of humans, mammals, and some other animals.

Example: You need to trim your **hair** .

- The word **Hares** means a fast-running, long-eared mammal with very long hind legs that resembles a large rabbit and is typically found in grassland or open woodland.

Example: There are lot of **hares** in the park.

- The word **Here** means in, at, or to this location or position.

Example: Come **here** !

54. Answer: b

Explanation:

The correct answer is understood what normal

★ Key Points

- In the above sentence there should be **understand** instead of **understood** .
- The word understood is **past form** of word understand which means understand the intended meaning of (words, a language, or a speaker).
- We use understood when the sentence formation is of **past tense** but here the sentence formation is of **present tense** hence Understand would be used here.
- *Example* :**Present** - I hope you **understand** what I said.

Past - I hope you all have **understood** yesterday's topic.

★ Additional Information

Tenses Chart

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Future Perfect Continuous Tense	Subject + will have been + V1 + ing + Object

55. Answer: a

Explanation:

The correct answer is Composed

★ Key Points

- **Antonym** means a phrase or word with the opposite meaning as another phrase or word.
- The word **baffled** means completely perplex or perplex.
- The word **composed** means having control over one's emotions and expression; serenity.
- The meaning of word baffled is opposite of the meaning of word composed, **hence the correct answer is composed.**

★ Additional Information

- The word **Thwarted** is the past tense of word thwart which means prevent (someone) from doing something.

Example : The army **thwarted** the attempt at a coup.

- The word **flustered** is an adjective which means confused.

Example : He was so **flustered** that he forgot to eat.

- The word **confused** means unable to think.

Example : I am so **confused** about what to eat.

56. Answer: a

Explanation:

The correct answer is Our website no longer available to the users

★ Key Points

- In the above sentence the incorrectly spelt word is **webcite** which should be **website** .
- **Our** is the first person plural possessive determiner. **Our** is used to demonstrate that something has a place or relates both to yourself and to one or more other individuals.
- *Example* : This is **our** dog.
- The word **website** means a set of related web pages found beneath a single space title, regularly created by a single individual or organization.
- *Example* : You can get more information on our **website** .

★ Additional Information

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57. Answer: c

Explanation:

The correct answer is have no doubt that there is a lesson

★ Key Points

- In the above sentence there should be **have no doubt that there is a lesson** instead of **has no doubts that there is a lesson**.
- **"Has"** is used in past perfect tense but **"have"** is used in present perfect tense and the above sentence is of present perfect tense , therefore "have" will be used.
- There should be **doubt** instead of **doubts** , doubts is the plural form of doubt means when there is more than one doubt.
- The word **doubt** means a sense of doubt or lack of conviction.

★ Additional Information

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58. Answer: c

Explanation:

The correct answer is on cloud nine

★ Key Points

- Idioms are a collection of words established by usage as having a meaning distinct from the meanings of the individual words.
- The meaning of idiom on **cloud nine** is extremely happy.
- The **meaning** of above sentence is that as he cleared his exam he was very happy.
- *Example* : My mother is on **cloud nine** today as she won lottery.

★ Additional Information

Some more idioms on **happiness** are :

- **Like a dog with two tails** - to be very cheerful and happy

Example : Jim is behaving **like a dog with two tails** today.

- **Full of joys of the spring** – to look and be very happy

Example : My parents are **full of joys of the spring** after meeting their grandchild.

- **On the top of world** – feeling very happy.

Example : After scoring well I feel like being **on the top of world**.

59. Answer: b

Explanation:

The correct is Discrimination at the basis

★ Key Points

- In the above sentence there should be **Discrimination on the basis** .
- There should be **on** in place of **at**.
- **"At"** is a preposition which is used to refer to a specific time or location.

Example : Let's meet **at** canteen.

- **"On"** is a preposition which is used when something is rubbing up against something.

Example : My cat is **on** table.

★ Additional Information

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60. Answer: c

Explanation:

The correct answer is carefully examined

★ Key Points

- There should be **carefully examined** instead of examined carefully in above sentence.
- The **adjective** should be placed before **verb**, here carefully is adjective and examined is verb.

★ Additional Information

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61. Answer: c

Explanation:

The correct answer is including

★ Key Points

- The above blank should be filled with word including.
- The word **including** is a preposition which means containing as a component of the whole under consideration.
- Example : All the students **including** class teachers are requested to come to ground.

★ Additional Information

62. Answer: b

Explanation:

The correct answer is adorable

★ Key Points

- The above blank should be filled with word **adorable** .
- The word **adorable** is an adjective which means arousing strong affection or delight
- *Example* : That bunny is so **adorable** .
- **Adjectives** are a word describing a noun's attribute, such as sweet, red, or technical.

★ Additional Information

Tenses Chart

Prepp

Your Personal Exams Guide

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63. Answer: a

Explanation:

The correct answer is Skinny

★ Key Points

- **SYNONYM** is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Slim** means thin and slender.
- The word **skinny** means thin.
- The meaning of word Slim is similar to the meaning of word skinny, **hence skinny is the answer.**

★ Additional Information

- The word **moody** is an adjective which is given to erratic mood swings, especially sudden bouts of gloom or sullenness.

Example : My father is so **moody** .

- The word **rosy** is an adjective which means resembling a pink or red rose, usually as a symbol of health, youth, or embarrassment

Example : Mia have **rosy** cheeks.

- The word **Flashy** is an adjective which means ostentatious in appearance or impact

Example : His goggles are so **flashy** .

64. Answer: d

Explanation:

The correct answer is No improvement required

★ Key Points

- There is **no improvement required** in the sentence.
- The above sentence is **grammatically correct**.
- The **sentence formation** is also rightly done.
- The **use of punctuations** is also correct.

★ Additional Information

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65. Answer: d

Explanation:

The correct answer is **Infrequent**

★ Key Points

- **SYNONYM** is a phrase or word with the same or well almost the same meaning as another phrase or word.
- The word **Sporadic** means occurring at irregular intervals or in only a few locations; dispersed or isolated.
- The word **Infrequent** means occurring rarely.
- The meaning of word Sporadic is similar to the meaning of word Infrequent, **hence infrequent is the answer.**

★ Additional Information

- The word **regular** means forming a consistent or definite pattern, especially with the same space between individual instances

Example : I would like to wear my **regular** jacket.

- The word **ample** means enough or more than enough; abundant.

Example : Come on we have ample space here.

- The word **methodical** carried out in accordance with a systematic or established procedure.

Example : She's a slow and methodical worker

66. Answer: c

Explanation:

The correct answer is Draw

★ Key Points

- The use of one word in place of a wordy phrase to clarify the sentence structure is known as **one word substitution**.
- The word **draw** is a noun which means a game or contest that ends with the even score.
- *Example* : The game was considered **draw** due to equal score.

★ Additional Information

- The word **hung** is an adjective which means Emotionally befuddled or disturbed.

Example : People get **hung** up in a variety of ways.

- The word **null** is an adjective which means having 0 value

Example : This equation can be considered as **null** .

- The word **Lapse** is an adjective which means a pause or passage of time.

Example : There is a **lapse** of 15 minutes between this and next event.

67. Answer: c

Explanation:

The correct answer is Hidden

★ Key Points

- **Antonym** means a phrase or word with the opposite meaning as another phrase or word.
- The word **Evident** is an adjective which means seen clearly or in-front of eyes.
- The word **Hidden** is an adjective which means not visible.
- The meaning of Evident is opposite to the meaning of Hidden, *hence the correct answer is Hidden.*

★ Additional Information

- The word **Obvious** is an adjective which is synonym of Evident and it means apparent.

Example: Unemployment has been the most **obvious** cost of the recession.

- The word **Distinct** is an adjective which means easily distinguishable through the senses.

Example: A **distinct** smell of wine.

- The word **Apparent** is an adjective which is synonym of Evident and it means clearly seen.

Example: She laughed for no **apparent** reason.

68. Answer: d

Explanation:

The correct answer is woke up to a

★ Key Points

- In the above sentence there should be **woke up instead of woken up**.
- The word **woke** is the past form of word **wake** .
- The word **wake** means to get up from sleep.
- The above sentence is in **past tense** hence the past form of word wake that is **woke** will be used.
- *Example* : I **woke** up late this morning.

★ Additional Information

Tenses Chart

Prepp

Your Personal Exams Guide

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69. Answer: c

Explanation:

The correct answer is Beneficial

★ Key Points

- The Correct spelling is **Beneficial** .
- The word **beneficial** is an adjective which means advantageous.
- *Example* : Kiwi is **beneficial** to health.

★ Additional Information

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70. Answer: c

Explanation:

The correct answer is are present at

★ Key Points

- In the above sentence there should be **are present at** instead of **are presently at**.
- The word **presently** is an adverb which is used to signify that (present) very moment.

Example : These are the courses **presently** available.

- The word **present** is an adjective which means being at a place.

Example : All the students must be **present** in tomorrow's class.

★ Additional Information

- When we are describing change, we use **into** after verbs.

Example : Come **into** the house.

- The word **at** is a preposition. We use at to refer to a specific time or location. It is also used to refer to activities.

Example : We are **at** auditorium.

71. **Answer: c**

Explanation:

The correct answer is **Where**

★ **Key Points**

- The above blank should be filled with **where** .
- The adverb **where** is most commonly used to define a location or position.
- *Example* : **Where** are you going?



Additional Information Tenses Chart

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72. Answer: c

Explanation:

The correct answer is The.

★ Key Points

- **The** above blank should be filled with the.
- " **The** " is used before nouns to refer to specific things or people that have already been discussed or are well-known.
- *Example* :**The** great wall of china is the longest wall of **the** world.

★ Additional Information

- "A" comes before consonant-starting words.
- "An" comes before words that start with a vowel.
- *Example* :**an** apple , **a**mango.

73. Answer: c

Explanation:

The correct answer is Covered

★ Key Points

- The above blank should be filled with word **covered** .
- The suffix -ed is added to verbs to form the **past tense or past participle**.
- The word **covered** is past tense of word cover which means to put something on top of or in front of (something), particularly to protect or conceal it.
- *Example* : The table was **covered** with the cloth.

★ Additional Information

- The word **exposed** is an adjective which means something visible.

Example : Jim was **exposed** in-front of everybody.

- The word **highlighted** is past form of word highlight which means draw special attention

Example : Max was **highlighted** in the classroom due to his neon shoes.

- The word **made** is past form of word make which means to form something.

Example : Jenny **made** this sweater.

74. Answer: d

Explanation:

The correct answer is distinguished

★ Key Points

- The above blank should be filled with word **distinguished** .
- The word **distinguished** is an adjective which means something different from others or something respected and admired for excellence.

- *Example* : This slide has the **distinguishing** factor of whole presentation.

★ Additional Information

- The word **anguished** is an adjective which means suffering from severe mental or physical pain or suffering.

Example : She gave an **anguished** cry.

- The word **crushed** is an adjective which means deformed or compressed.

Example : She **crushed** his feelings by rejecting his proposal.

- The word **extinguished** is the past form of word extinguish which means to put at an end.

Example : The hopes of trip were **extinguished** by the teacher.

75. **Answer: c**

Explanation:

The correct answer is seen

★ Key Points

- The above blank should be filled with the word **seen** .
- The word **seen** is the past form of word see, it means said to express approval or agreement, or to seek confirmation of an utterance.
- *Example* : My mother have **seen** my tattoo.

★ Additional Information

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76. Answer: d

Explanation:

The correct answer is Rat

★ Key Points

- Mammalia is a class of animal within the phylum **Chordata**. Mammal classification has been through several iterations since Carl Linnaeus initially defined the class.
- Mammals are warm-blooded animals that give birth to their younger ones. They are the most dominant form of animals found in almost all types of habitats. They have mammary glands that help them produce milk to feed their younger ones.

★ Additional Information

- Presence of a region of the brain known as the Neocortex.
- Their skin possesses oil glands (sebaceous glands) and sweat glands.
- The trunk is divided into the thorax and abdomen.
- The mammals respire through the lungs.

- Good sense of hearing as mammals are aided by 3 middle ear bones
- Mammals have a four-chambered heart. The sinus venous and renal portal systems are absent.
- Presence of single-boned lower jaws.
- The brain is well-developed and divided into the cerebrum, cerebellum, and medulla

77. Answer: d

Explanation:

The correct answer is Hindi, Marathi, Maithili

★ Key Points

- The 2011 census recorded **31 individual languages** as having more than 1 million native speakers (0.1% of the total population).
- The languages in bold are scheduled languages (the only scheduled language with less than 1 million native speakers is Sanskrit)
- . The number of **Marathi speakers** came down from 7.69 percent of the national **population** in 1961 to 6.83 percent in **2011**.
- As per the 2011 census, **43.63 percent of Indians speak Hindi as their mother tongue**.
- Bengali, with 8.03 percent speakers, is second in the list, followed by Marathi at 3rd with 6.86 percent speakers, Telugu at 4th with 6.7 percent speakers, and Tamil at 5th with 5.7 percent speakers

★ Additional Information

- Language data based on Census 2011 has revealed that **Sanskrit** is the least spoken of the country's 22 scheduled languages.
- According to the Times of India, the number of speakers who listed it as their mother tongue was 24,821. **It is preceded by Bodo, Manipuri, Konkani, and Dogri** in terms of the number of speakers
- According to the 2011 Indian Census, the **Hindi language** is the most spoken language in India, having 52.83 crore speakers and 43.63 percent of the

population speaking this language.

78. Answer: b

Explanation:

The correct answer is Vyjayanthimala.

★ Key Points

- Vyjayantimala Bali, an actor-**dancer**, talks about cinema, **dance**, and singing. She gave an unprecedented boost to the classical **dance form**.
- Vyjayanthimala is a former Indian actress, dancer, and parliamentarian. Regarded as the "First Female Superstar" of Hindi cinema.
- She is the recipient of several accolades, including two BFJA Awards and five Filmfare Awards.

★ Additional Information

- **Hema Malini is a trained Bharatanatyam dancer** and landed her first lead role in the 1986 Hindi film.
 - Sridevi Nrityalaya specializes in the **Melattur style of Bharatanatyam**. This form of dance emphasizes on rich music and gives equal importance to nritta and nritya. It focuses on intricate jatis, controlled abhinaya, and grace, where all the performers are taught to perform with confidence and ease.
 - **Madhubala is famous for her kathak form** of style where she performed in numerous films too.
-

79. Answer: a

Explanation:

The correct answer is Wheat

★ Key Points

- Wheat is a **rabi crop**. Though this crop is grown in large parts of India, states from the north and north-western parts such as Punjab, **Haryana, Himachal Pradesh, Jammu and Kashmir, Uttarakhand, and Uttar Pradesh** are important for the production of wheat and other rabi crops.
- Wheat is the second most **important cereal crop**. It is the main food crop, in the north and north-western parts of the country. This rabi crop requires a cool growing season and bright sunshine at the time of ripening.

★ Additional Information

- The major crops in India can be divided into **four categories**.
- **Food grains** (Rice, Wheat, Maize, Millets, and Pulses),
- **Cash Crops** (Cotton, Jute, Sugarcane, Tobacco, and Oilseeds)
- **Plantation Crops** (Tea, Coffee, Coconut, and, Rubber)
- **Horticulture crops** such as Fruits and Vegetables.

80. Answer: b

Explanation:

The correct answer is Maharashtra

★ Key Points

- **Lavani is a folk dance from Maharashtra.**
- It is a combination of traditional song and dance, which is particularly performed to the beats of the Dholki which is a percussion instrument.
- It is noted for its powerful rhythm and has contributed substantially to the development of Marathi folk theatre.

★ Additional Information

- Lavani, the most popular dance form of Maharashtra derives its name from Lavanya, which is translated as beauty.

- It is performed by beautiful women wearing nine yards sarees and dancing to the beats of a drum-like instrument called a dholak.



81. Answer: c

Explanation:

The correct answer is Hyderabad FC

★ Key Points

- SL 2021-22 Final Highlights: **Hyderabad FC** win maiden ISL Trophy; beat Kerala Blasters on penalty shoot-out
- **Hyderabad Football Club** is an Indian professional football club based in Hyderabad, Telangana. The club competes in the Indian Super League, the top flight of Indian football

★ Additional Information

- The 2021–22 Indian **Super League** season was the **8th season of the Indian Super League since its formation in 2013** and the 26th season of the top division of Indian football league system.
- The season started on 19 November 2021 and concluded with the final on 20 March 2022.

82. Answer: c

Explanation:

The correct answer is Football

★ Key Points

- A **free kick** is a method of restarting play in association football.
- It is awarded after an infringement of the laws by the opposing team.
- These are given regularly in a game as the offenses committed are very common throughout a full match. This is different from the indirect free kick.

★ Additional Information

- **Badminton is a single-player game whereas cricket is a team game.** In badminton, it depends on you, and how you execute the game. It's about your day and your hard work. On another side, Cricket needs all players to perform with the bat as well as the ball.
- Hockey was considered a national sport **due to the country's dominance from 1928-1956**, a period when the Indian team won 8 gold, 1 silver, and 3 bronze in the Olympics.

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83. Answer: c

Explanation:

The correct answer is Rajinikanth.

★ Key Points

- The most recent recipient of the award is **actor Rajinikanth** who was honored at the 67th National Film Awards ceremony.
- Superstar **Rajinikanth on October 25** received the prestigious **51st Dadasaheb Phalke Award at the 67th National Film Awards** ceremony for his outstanding

contribution to the world of Indian cinema.

- The award ceremony was held at New Delhi's **Vigyan Bhawan**. Vice President Venkaiah Naidu handed the prizes to the awardees.

★ Additional Information

- The Dadasaheb Phalke Award is India's highest award in the field of cinema. It is presented annually at the National Film Awards ceremony by the Directorate of Film Festivals, an organization set up by the Ministry of Information and Broadcasting.
- Instituted in 1969 when presented to Devika Rani, the **Dadasaheb Phalke Award** was introduced by the Government of India to commemorate Dadasaheb Phalke's.

84. Answer: c

Explanation:

The correct answer is Rajasthan

★ Key Points

- Gangaur is a festival celebrated in the Indian state of Rajasthan and the Nimaar region of Madhya Pradesh.
- It is also celebrated in some parts of Gujarat and West Bengal.
- Gangaur, also known as **Gauri Tritiya**, is celebrated mainly in North Indian states, **especially in Rajasthan and some parts of Uttar Pradesh, Madhya Pradesh, Haryana, and Gujarat**.
- The festival commences on the first day of Chaitra according to Purnimant School and continues for 18 days.

★ Additional Information

- The womenfolk celebrate the festival of Gangaur with great zeal and devotion, praying to **Goddess Parvati/Gauri to bless** them with a bountiful spring that's full of harvest, and also marital harmony.

- They also urge the goddess to bless their husbands with good health and long life.
-

85. Answer: c

Explanation:

The correct answer is West Bengal

★ Key Points

- West Bengal Chief Minister Mamata Banerjee launched an ambitious “Duare Ration” scheme for providing food grains under the public distribution system at the doorstep for the tire population of the State

★ Additional Information

- The state and the central governments work hand in hand to provide food grains and other essential items at low prices for communities that are under and just above the poverty line.
 - The Central Government takes the responsibility to procure, preserve, transport, and allocate the resources.
 - The State Government ensures the setting up of a network of recognition and availability of these rations via cards and shops.
 - The center procures food grains from farmers at a Minimum Support Price (MSP) and sells it to states at central issue prices.
-

86. Answer: d

Explanation:

The correct answer is Bihar.

★ Key Points

- The **Mahabodhi Temple or the Mahābodhi Mahāvihāra, a UNESCO World Heritage Site,**
- It is an ancient, but much rebuilt and restored, Buddhist temple in Bodh Gaya, marking the location where the Buddha is said to have attained enlightenment.
- Bodh Gaya is about 96 km from Patna, Bihar state, India.

★ Additional Information

- In the context of philosophical and cultural history, Mahabodhi Temple Complex is of great relevance as it marks the most important event in the life of Lord Buddha, the moment when Prince Siddhartha attained Enlightenment and became Buddha, an event that shaped human thought and belief.
- Buddhism in the subcontinent declined in the 8th and 9th centuries CE but experienced a revival under the Pala Empire (9th to 12th century CE) and their successors, the Sena Dynasty (1170–1230 CE).
- The Mahabodhi Temple was abandoned after the defeat of the Senas by the Delhi Sultanate led by Bakhtiyar Khilji.

87. **Answer: c**

Explanation:

The correct answer is 1227.

★ Key Points

- **Genghis Khan** (1162–1227 C.E.), the founder of the Mongol Empire, is widely regarded as one of the most successful military commanders in world history.
- In the year 1206 C.E., Genghis—originally known as Temujin—was in his forties, with his greatest military exploits still ahead of him.
- On **August 18, 1227**, while putting down a revolt in the kingdom of Xi Xia, Genghis Khan died. On his deathbed, he ordered that Xi Xia be wiped from the face of the earth.

★ Additional Information

- Genghis Khan was **the founder and first Great Khan of the Mongol Empire**, which became the largest contiguous empire in history after his death.
- He came to power by uniting many of the nomadic tribes of the Mongol steppe and being proclaimed the universal ruler of the Mongols, or Genghis Khan.

88. Answer: d

Explanation:

The correct answer is Aravind Adiga.

★ Key Points

- **Aravind Adiga** was born in India in 1974 and attended Columbia and Oxford universities
- He is the author of the **novels Amnesty; Selection Day, now a series on Netflix; The White Tiger, which won the Man Booker Prize;** and the story collection *Between the Assassinations*.

★ Additional Information

- Kiran Desai
 - **Kiran Desai is an Indian author.**
 - Her novel *The Inheritance of Loss* won the 2006 Man Booker Prize and the National Book Critics Circle Fiction Award.
 - In January 2015, *The Economic Times* listed her as one of the 20 "most influential" global Indian women.
- **Vikram Seth**
 - Vikram Seth, (born June 20, 1952, in Calcutta [now Kolkata], India), is an Indian poet, novelist, and travel writer known for **his verse novel *The Golden Gate* (1986) and his epic novel *A Suitable Boy* (1993).**
 - The son of a judge and a businessman, Seth was raised in London and India
- **Chetan Bhagat**
 - Chetan Bhagat is an Indian author, columnist, and you tuber.

- He was included in Time magazine's list of the World's 100 Most Influential People in 2010

89. Answer: a

Explanation:

The correct answer is Sarojini Naidu

★ Key Points

- **Sarojini Naidu**
 - Sarojini Naidu was an Indian political activist and poet.
 - A proponent of civil rights, women's emancipation, and anti-imperialistic ideas, she was an important person in India's struggle for independence from colonial rule
 - Sarojini Naidu was **the first Indian woman to be president of the Indian National Congress and to be appointed an Indian state governor**

★ Additional Information

- Raikumari Amrit Kaur
 - Dame Rajkumari Bibiji Amrit Kaur DStJ was an Indian activist and politician.
 - Following her long-lasting association with the Indian independence movement, she was appointed the first Health Minister of India in 1947 and remained in office until 1957
- Sheila Dikshit
 - **Sheila Dikshit was an Indian politician.**
 - The longest-serving Chief Minister of Delhi, as well as the longest-serving female chief minister of any Indian state, she served for a period of 15 years beginning in 1998.
- **Kasturba Gandhi**
 - **Kasturbai Mohandas Gandhi was an Indian political activist.**
 - She married Mohandas Gandhi, more commonly known as Mahatma Gandhi, in 1883.

90. Answer: b

Explanation:

The correct answer is tide

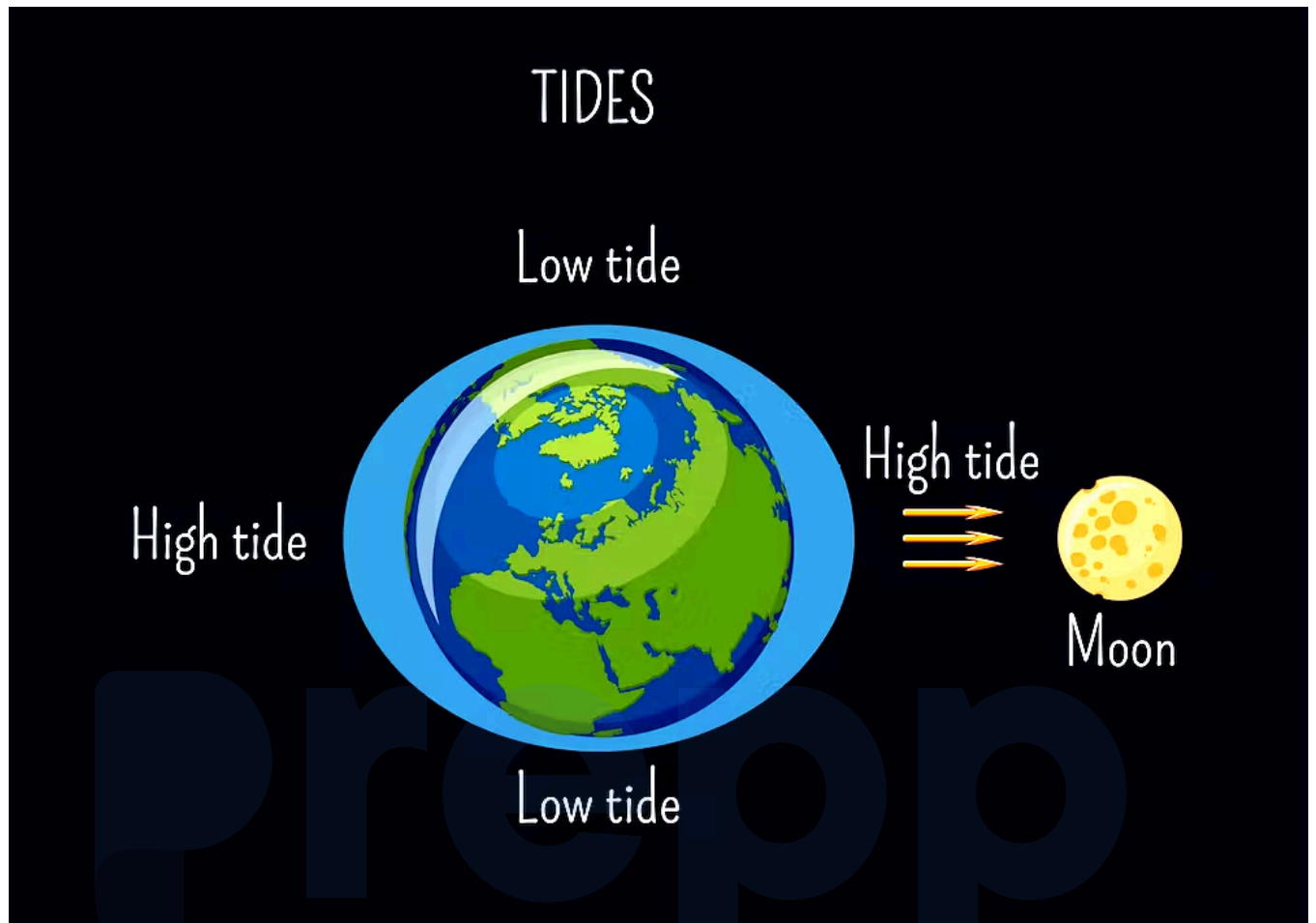
★ Key Points

- **Tide**
 - Tides are **the rise and fall of sea levels caused by the combined effects of the gravitational forces exerted by the Moon and the Sun**, and the rotation of the Earth.
 - Tide tables can be used for any given locale to find the predicted times and amplitude

★ Additional Information

- Tides are **very long-period waves that move through the ocean in response to the forces exerted by the moon and sun.**
- Tides originate in the ocean and progress toward the coastlines where they appear as the regular rise and fall of the sea surface

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91. Answer: c

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Explanation:

The correct answer is Bill.

★ Key Points

- A bill is the draft of a legislative proposal, which, when passed by both houses of Parliament and assented to by the President, becomes an act of Parliament.
- As soon as the bill has been framed, it has to be published in the newspapers and the general public is asked to comment in a democratic manner

★ Additional Information

- An amendment to the Constitution can be initiated only by the introduction of a Bill in either House of Parliament .
- The Bill must then be passed in each House by a majority of the total membership of that House and by a majority of not less than two-thirds of the members of that House present and voting.
- The original text of the Constitution contained 395 articles in 22 parts and eight schedules.
- It came into effect on January 26, 1950, the day that India celebrates each year as Republic Day.
- The number of articles has since increased to 448 due to 100 amendment
- The Constitution of India contains 395 **articles** in 22 parts.
- This summary of the Indian Constitution (index) helps to learn about Indian **Polity**.

92. Answer: b

Explanation:

The correct answer is Gross Domestic Product (GDP).

★ Key Points

- **Gross Domestic Product**
 - GDP measures the monetary value of final goods and services—that is, those that are bought by the final user—produced in a country in a given period of time (say a quarter or a year).
 - It counts all of the output generated within the borders of a country.

★ Additional Information

- **Gross margin**
 - Gross margin equates to net sales minus the cost of goods sold .
 - The gross margin shows the amount of profit made before deducting selling, general, and administrative (SG&A) costs.
 - Gross margin can also be called gross profit margin, which is gross profit divided by net sales

- Net national product
 - Net national product refers to gross national product, i.e. the total market value of all final goods and services produced by the factors of production of a country or other polity during a given time period, minus depreciation.
- **Gross National Product**
 - Gross National Product (GNP) is the total value of all finished goods and services produced by a country's citizens in a given financial year, irrespective of their location .
 - GNP also measures the output generated by a country's businesses located domestically or abroad.

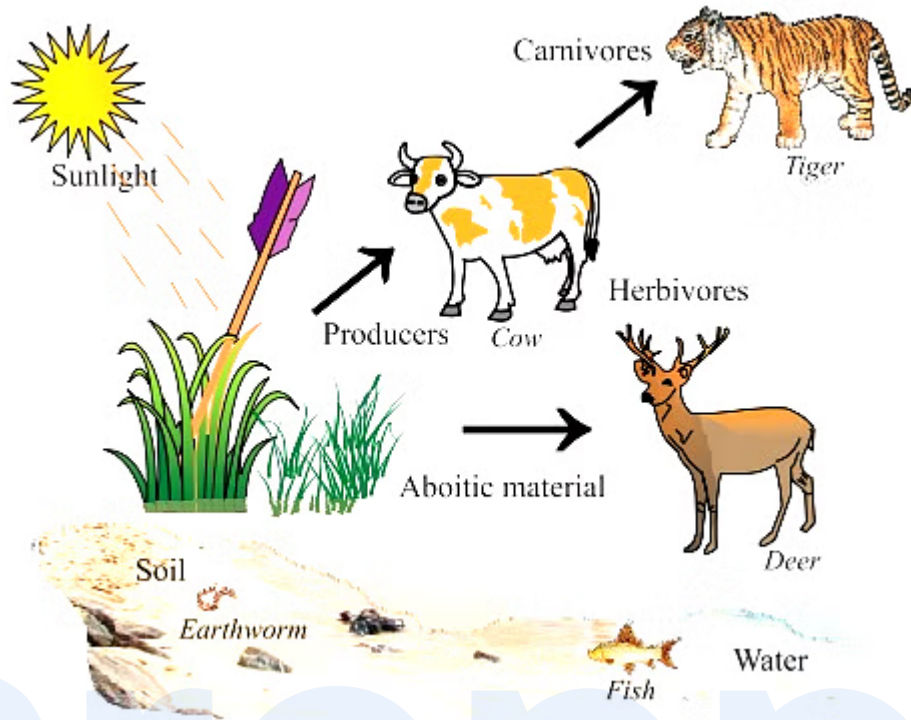
93. Answer: d

Explanation:

The correct answer is Fungi.

★ Key Points

- Biotic components include plants, animals, and decomposers .
- Like all ecosystems, aquatic ecosystems have five biotic or living factors: producers, consumers, herbivores, carnivores, omnivores, and decomposers
- Biotic components are living organisms in an ecosystem .
- A biotic factor is a living organism that affects another organism in its ecosystem.
- Examples include plants and animals that the organism consumes as food and animals that consume the organism. Also, Sunlight, Humidity, and fungi.



94. Answer: c

Explanation:

The correct answer is Tabla.

★ Key Points

- Ustad Alla Rakha Qureshi, popularly known as Alla Rakha, was an Indian tabla player who specialized in Hindustani classical music.
- He was a frequent accompanist of sitar player Pandit Ravi Shankar and was largely responsible for introducing Tabla to the western audience.
- Despite opposition from his family, Alla Rakha left home at age 12 to learn tabla under the great master (ustad) Mian Qadir Baksh.
- He also trained under Ashik Ali Khan, a vocalist admired especially for his mastery of the khayal Hindustani song repertoire.

Ustad Allarakha



95. Answer: c

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Explanation:

The correct answer is **Dihang**

★ Key Points

- **Dihang**
 - In Arunachal Pradesh, Brahmaputra is known by the name Dihang.
 - The Brahmaputra enters India through the west of Sadiya town in Arunachal Pradesh.
 - In Bangladesh, Brahmaputra is known by the name of Jamuna.

★ Additional Information

- **Tsangpo**
 - The Yarlung Tsangpo River is the highest major river in the world. It is the longest river of Tibet Autonomous Region, China.
 - Downstream from Arunachal Pradesh, the river becomes wider and after reaching Assam, the river is known as the Brahmaputra.
 - The river has been called the "Everest of Rivers" because of the extreme conditions of the river.
- **The River Ganges Tributaries:**
 - Left: Gomti, Ghaghara, Gandak, Burhi Gandak, Koshi, Mahananda, Ramganga, Garra.
 - Right: Yamuna, Sone, Punpun, Falgu, Chandan, Ajoy, Damodar, Rupnarayan, Tamsa (also called Tons).
- **Mandakini**
 - The River Mandakini has its source in the Sumeru glacier above the Kedarnath Temple.
 - The Mandakini River is a tributary of the Alaknanda River in the Indian state of Uttarakhand.

96. **Answer: b**

Explanation:

The correct answer is **Federalism**.

★ Key Points

- **Federalism**
 - Federalism is part of the basic structure of the Indian constitution which cannot be altered or destroyed through constitutional amendments under the constituent powers of the Parliament without undergoing judicial review by the Supreme Court.
- **Federal features of the Indian constitution:**
 - Written constitution.

- Supremacy of constitution.
- Division of powers.
- Independent judiciary.
- Bicameralism.
- The rigidity of the constitution.
- Two governments.

★ Additional Information

• **Radicalism**

- Radicalism is the opinions and behavior of people who favor extreme changes especially in government : radical political ideas and behavior. political radicalism.

• **Liberalism**

- Liberalism is a political and moral philosophy based on the rights of the individual, liberty, consent of the governed and equality before the law.

• **Secularism**

- Secularism means the separation of religion from political, economic, social and cultural aspects of life, religion being treated as a purely personal matter .
- The term "Secular" means being "separate" from religion or having no religious basis

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97. Answer: d

Explanation:

The correct answer is Bimbisara

★ Key Points

- Chandra Gupta Maurya:
 - Chandragupta Maurya founded the Maurya Empire in 322 BCE when he conquered the kingdom of Magadha and the northwestern Macedonian satrapies.

- Maurya Empire was founded in 322 BCE by Chandragupta Maurya, who had overthrown the Nanda Dynasty and rapidly expanded his power westward across central and western India in order to take advantage of the disruptions of local powers in the wake of the withdrawal by Alexander the Great's armies.
- According to legend, the teacher Chanakya convinced his disciple, Chandragupta Maurya, to conquer the kingdom of Magadha (the Nanda Empire) when he was insulted by its king Dhana Nanda.
- Chandragupta Maurya expanded the Maurya Empire north and west as he conquered the Macedonian Satrapies and won the Seleucid-Mauryan war.

★ Additional Information

- **Bindusara**
 - Bindusara, also Amitrochates was the second Mauryan emperor of India. He was the son of Chandragupta
- **Ashoka**
 - Ashoka , popularly known as Ashoka the Great, was an Indian emperor of the Maurya Empire, son of Bindusara
- **Bimbisara**
 - Bimbisara belonged to the Haryana dynasty.
 - Bimbisara (born b.c. 543—died 491 BCE), was one of the early kings of the Indian kingdom of Magadha.
 - Bimbisara is known as Seniya or Shrenika in Jain history.



98. Answer: b

Explanation:

The correct answer is Bishnu Charan Biswas and Digambar Biswas.

★ Key Points

- Indigo revolt
 - The Indigo Revolt was a peasant movement and subsequent uprising of indigo farmers against indigo planters that erupted in **1859** in the Chaugacha village of Nadia, Bengal.
 - The tenants were forced to grow indigo, which was processed in factories set up by indigo planters, almost all of whom were Europeans, in rural areas.

★ Additional Information

- Mahatma Gandhi
 - Mahatma Gandhi wrote Hind Swaraj in 1908 during his return visit to South Africa from India via London by ship.
 - Hind Swaraj highlights all of Gandhi's basic principles, including the relationship between ends and means, between rights and duties, and between religious communities, as well as his concepts of history, nationality, dissent, education, and technology.
- Vasudeo Balwant Phadke :
 - He was born in the Raigad district of Maharashtra and belonged to the farming community and believed in Swaraj (Self-Rule).
 - He got control of Pune in Maharashtra after catching British soldiers off-guard during a surprise attack.
- Madari pasi
 - Madari pasi led the Eka Movement along with many zamindars.
 - The peasants assembled for Eka Movement meetings vowed that they would pay only the recorded rent.

99. Answer: b

Explanation:

The correct answer is construction work.

★ Key Points

- A secondary activity is an activity performed by a unit in addition to its principal activity. The result of a secondary activity is called secondary production
- Examples of secondary activities include small potteries and handicraft manufacturing.
- Factories that manufacture steel, chemicals, plastic, and automobiles, Textile mills, Food producing facilities such as breweries, and food processing industries.

★ Additional Information

- The primary sector includes basic industries like fishing, mining, and agriculture.
- The secondary sector has manufacturing industries. The tertiary sectors include final point industries like finance, hotel, trade, banking, and tourism.

100. Answer: c

Explanation:

The correct answer is Boron.

★ Key Points

- Metalloid:-
 - A metalloid is a type of chemical element that has properties in between, or that are a mixture of, those of metals and nonmetals.
 - There are 7 metalloids in the modern periodic table.
 - The seven commonly recognized metalloids are:-
 - Boron, Silicon (Si), germanium (Ge), arsenic (As), antimony (Sb), tellurium (Te), Polonium(Po), and Astatine(At). Hence, Option 2 is correct.
 - Metalloids Silicon and Germanium are widely used in the semiconductor industry.
 - Properties of Metalloids:-
 - Most of their other physical properties and chemical properties are intermediate in nature.

- Typical metalloids have a metallic appearance.
- They are brittle and only fair conductors of electricity.
- Chemically, they behave mostly as nonmetals.
- They can form alloys with metals.
- They are lustrous in appearance.
- Their oxides are amphoteric or weakly acidic.

Table: Modern Periodic table

The zig zag line separates the metals from the non metals

GROUP NUMBER

1	2	Transition Metals										13	14	15	16	17	18	
1	2											5	6	7	8	9	10	
2	3	4	GROUP NUMBER										13	14	15	16	17	18
3	11	12	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
5	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
6	55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
7	87	88	89	104	105	106	107	108	109	110	111	112	113	115	116	117	118	119

PERIODS

*Lanthanoides 6

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu

**Actinoides 7

90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

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