

Prepp

Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

SSC MTS Previous Year Paper (Held on: 13 July 2022 Shift 1)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

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

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

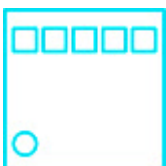
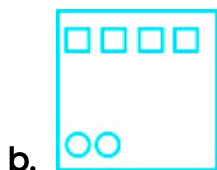
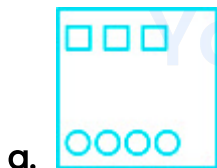
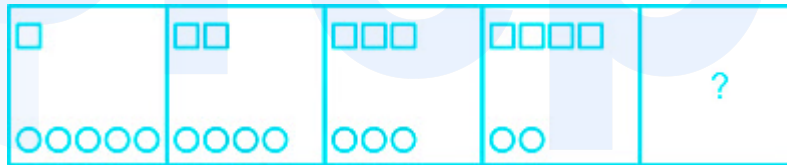
General Intelligence & Reasoning

1. Identify the number that does NOT belong to the following series. (+1, -0.25)

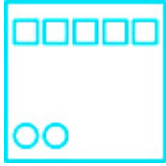
30, 15, 15, 22.5, 46, 112.5

- a. 46
- b. 112.5
- c. 22.5
- d. 30

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



c.



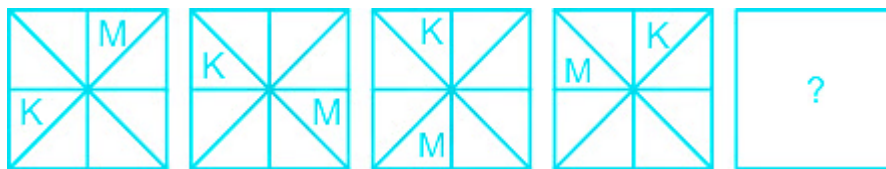
d.

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

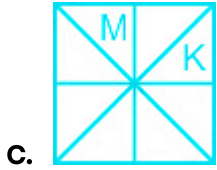
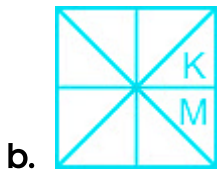
VOCAL : CVJHS :: TROOF : AYVVM :: RTAGE : ?

- a. YAHNM
- b. YAHML
- c. YAHNN
- d. YAHNL

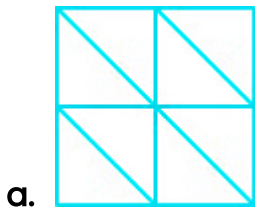
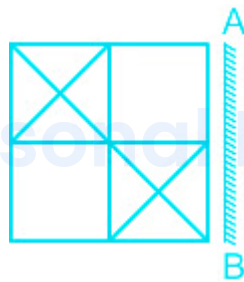
4. Select the figure from among the given options that can replace the question mark(?) in the following series. (+1, -0.25)

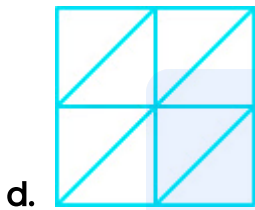
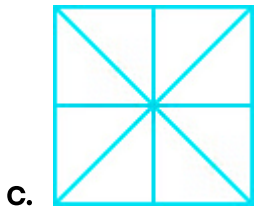
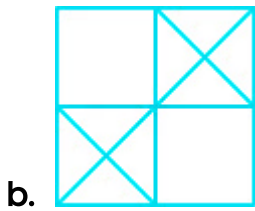


- a.



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





6. If 'White' is called 'Blue', 'Blue' is called 'Red', 'Red' is called 'Yellow', 'Yellow' is called 'Green', 'Green' is called 'Black', 'Black' is called 'Violet', and 'Violet' is called 'Orange', then what would be the colour of human blood? (+1, -0.25)

- a. Yellow
- b. Violet
- c. Red
- d. Green

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

632, 637, 644, 653, 664, ?

- a. 677
- b. 687
- c. 679
- d. 681

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

Statements:

Some mocks are exams.

Some exams are banks.

No bank is a local.

Conclusions:

I. Some mocks are local.

II. No mock is a local.

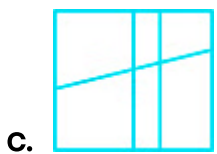
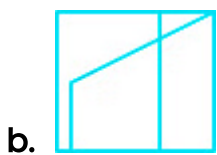
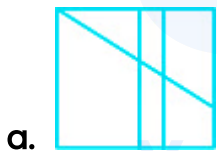
- a. Neither conclusion I nor II follows
- b. Only conclusion I follows
- c. Only conclusion II follows
- d. Either conclusion I or II follows

9. Four boys R, S, T and U are sitting in a row, facing towards the south (but not necessarily in the same order). Four girls A, B, C and D are sitting in a (+1, -0.25)

row, facing towards the face of these boys (but not necessarily in the same order). C and R are diagonally opposite to each other. A and S are diagonally opposite to each other. T is the immediate neighbour of R. D is the immediate neighbour of C. Who is facing D?

- a. R
- b. T
- c. U
- d. S

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



11. Which two numbers (not digits) need to be interchanged to make the given equation correct? (+1, -0.25)

$$83 + 711 - 95 \div 9 \times 2 = 20$$

- a. 9 and 2
- b. 711 and 95
- c. 95 and 83
- d. 2 and 83

12. 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)

THROW : XPSIU :: QUICK : LDJVR :: LIGHT : ?

- a. UIHKM
- b. UIHJM
- c. UIHLM
- d. UIHJN

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

6 : 232 :: 8 : ? :: 10 : 1016

- a. 520

- b. 535
 - c. 540
 - d. 528
-

14. The speeds of seven cars C1, C2, C3, C4, C5, C6 and C7 are compared. All cars have different speeds. The speed of C1 is more than only two cars. The speed of C6 is more than C4 and less than C5. The speeds of C2 and C3 are the highest and the lowest, respectively. The speed of C4 is more than C1. The speed of how many cars is less than C7? (+1, -0.25)

- a. 2
 - b. 1
 - c. 4
 - d. 5
-

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

$123 : 616 :: 147 : 736 :: 211 : ?$

- a. 1056
 - b. 1046
 - c. 996
 - d. 1036
-

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

GOAL, IMCJ, KKEH, MIGF, ?

- a. OHID
- b. OGJD
- c. OGIC
- d. OGID

17. In a certain code language, '321' means 'cold filtered coffee', '653' means 'very cold day' and '985' means 'day and night'. What is the code for 'very' in the same language? (+1, -0.25)

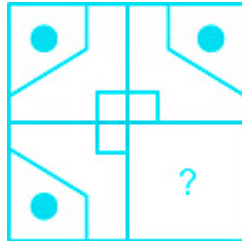
- a. 5
- b. 3
- c. 9
- d. 6

18. In a certain code language, 'grapes are multi red' is coded as '8 6 4 3', 'red people eat mango' is coded as '7 4 5 2' and 'mango multi apple' is coded as '3 5 0'. How will 'red apple' be coded in that language? (+1, -0.25)

- a. 4 0
- b. 5 0
- c. 8 5

d. 8 6

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



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

\div and $+$; 7 and 15

$$5 \div 35 + 15 \times 6 - 7 = ?$$

- a. 40
- b. 30
- c. 20
- d. 10

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

Canberra : Australia :: Doha : ?

- a. Qatar
- b. Iran
- c. Yemen
- d. Kuwait

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22. 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:

No 90s are 80s.

Some 90s are 40s.

All 80s are 70s.

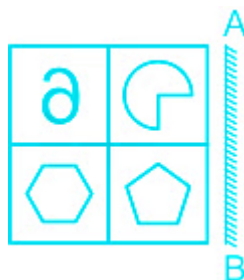
Conclusions:

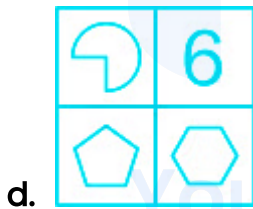
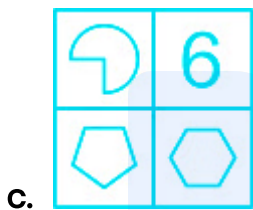
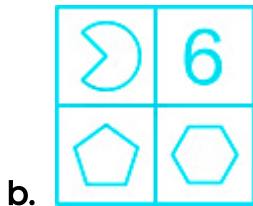
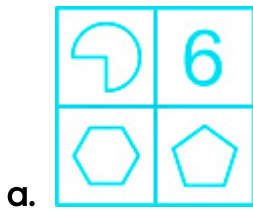
- I. All 80s being 40s is a possibility.
 - II. Some 70s are not 90s.
- a. Only conclusion II follows.
 - b. Only conclusion I follows.
 - c. Both conclusions I and II follow.
 - d. Neither conclusion I nor II follow.

23. In a certain code language, 'DETAIL' is written as 'FCVYKJ' and 'HEALTH' is written as 'JCCJVF'. How will 'MOTION' be written in that language? (+1, -0.25)

- a. OMVGPL
- b. OMVGQM
- c. OMVGQL
- d. OMVGRL

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





25. Seven girls A, B, C, D, E, F and G are sitting around a circular table facing opposite the center (not necessarily in the same order). E is second to the right of A. C is the immediate neighbour of E. D is third to the right of C. B is the immediate neighbour of E and A. F is fourth to the right of A. (+1, -0.25)

Which of the following statements is correct?

- I. D is next to the right of G.
- II. A is third to the left of B.

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

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Numerical Aptitude

26. The average mark obtained in a test by three students is X . If the marks of a new student is also considered, then the average marks increases by 2. What is the marks secured by the new student in the test? **(+1, -0.25)**
- a. $X + 4$
 - b. $X + 6$
 - c. $X + 8$
 - d. $X + 2$
-
27. In a partnership business. A and B invested in the ration of 5 : 6. At the end of 8 months A withdrew his capital. If they shared the eventual profit in the ratio of 5 : 9, then what is the number of months for which B invested his capital? **(+1, -0.25)**
- a. 6 months
 - b. 10 months
 - c. 12 months
 - d. 11 months
-
28. During a journey a person travels half of the distance at a speed of 18 km/h and the remaining half of the journey at a speed of 22 km/h. What is his average speed for the entire journey? **(+1, -0.25)**
- a. 21.4 km/h
 - b. 20.2 km/h

- c. 19.2 km/h
- d. 19.8 km/h

29. D_1 and D_2 can do a piece of work together in 16 days. D_2 and D_3 can do the same work together in 24 days, while D_3 and D_1 can do it together in 48 days. In how many days can all three, working together, do $\frac{5}{6}$ of the work? (+1, -0.25)

- a. $\frac{31}{3}$ days
- b. $\frac{40}{3}$ days
- c. $\frac{35}{3}$ days
- d. $\frac{38}{3}$ days

30. E% of 12.5% of 480 = 72. What is the value of E? (+1, -0.25)

- a. 95
- b. 110
- c. 105
- d. 120

31. In a job, Z_1 , Z_2 and Z_3 work for 8, 10 and 15 days, respectively. The ratio of daily wages of Z_1 , Z_2 and Z_3 is 3 : 4 : 4, respectively. If they receive ₹4,960 as total wages for the work done, then combined share of Z_2 and Z_3 in the total wages received? (+1, -0.25)

- a. ₹4,800

- b. ₹4,000
 - c. ₹4,400
 - d. ₹4,200
-

32. The area of the base of a solid cone is 616 cm^2 . If the height of the cone is 15 cm, then what is the volume of this cone? (+1, -0.25)

- a. 2940 cm^3
 - b. 3440 cm^3
 - c. 3190 cm^3
 - d. 3080 cm^3
-

33. What is the value of A, if $A = [50 - 4 \times 5 + \{6 \div 3 - 1\}]$? (+1, -0.25)

- a. 30
 - b. 71
 - c. 31
 - d. 29
-

34. Study the given table and answer the question that follows. (+1, -0.25)

The table below shows the percentage distribution of students from five different colleges in various disciplines.

DISCIPLINES	COLLEGES				
	P	Q	R	S	T
SCIENCE	25	35	45	28	35
ECONOMICS	45	40	15	42	25
MATHEMATICS	30	25	40	30	40
TOTAL NUMBER OF STUDENTS	8000	10000	15000	9000	11000

Students from the discipline of mathematics in colleges P and R taken together is what percentage of the total number of students in colleges P and R taken together? [Give your answer correct to one decimal place]

- a. 36.9%
- b. 36.5%
- c. 37.2%
- d. 37.5%



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35. A boat can travel 5 km upstream in 15 minutes. If ratio of the speed of the boat in still water to the speed of the stream is 6 : 1, then how much time will the boat take to cover 19.6 km downstream? (+1, -0.25)

- a. 54 minutes
- b. 26 minutes
- c. 42 minutes
- d. 31 minutes

36. A retailer bought 50 kg of Arhar Dal at a discount of 20% Another 2 kg of Arhar dal was offered to him for free by the wholesaler on the purchase of 50 kg of the dal. If the retailer sells the entire quantity of the dal at the marked price to a customer, what is the profit percentage gained by the retailer? (+1, -0.25)
- a. 30%
 - b. 22%
 - c. 12%
 - d. 15%

-
37. There are 32 consecutive natural number. The average of the first 13 numbers is X. What is the average of the next 19 numbers? (+1, -0.25)
- a. $X + 15$
 - b. $X + 16$
 - c. $X + 17$
 - d. $X + 18$

-
38. The ratio of two number is 3 : 7. The sum of the two numbers is 180. What is the positive difference between the two numbers? (+1, -0.25)
- a. 80
 - b. 72
 - c. 85

d. 78

39. What is the LCM of two numbers, whose product is 432 and HCF is 6? (+1, -0.25)

a. 68

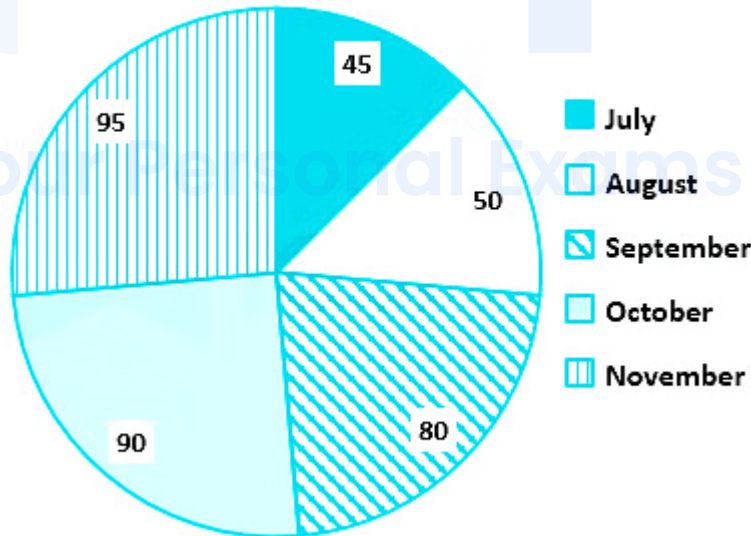
b. 48

c. 78

d. 72

40. The following pie chart gives the central angles of the sectors representing the number of cameras sold by a shop from July to November in a certain year. (+1, -0.25)

No. of cameras sold



What percentage are the sales in July of the total sales from July to November?

a. 25%

- b. 50%
- c. 12.5%
- d. 20%

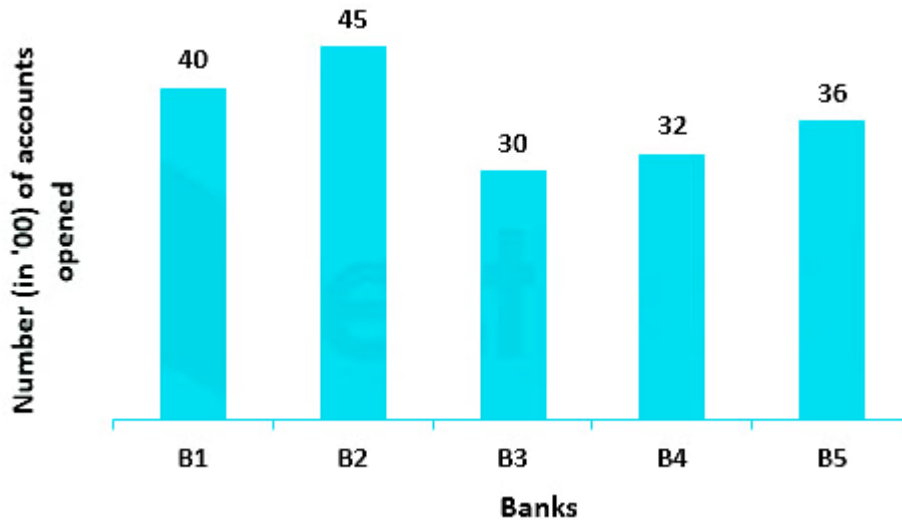
41. The compound interest on ₹20,000 at 5% per annum, compounded annually, is ₹2,050. What is the time period? (+1, -0.25)

- a. 2.5 years
- b. 2 years
- c. 4 years
- d. 3 years

42. What is the value of $\frac{7}{8} + \frac{8}{11}$ of $\left[\frac{33}{16} - \frac{5}{12} + \left(\frac{6}{11} - \frac{5}{12} + \frac{7}{22}\right)\right]$? (+1, -0.25)

- a. $\frac{6871}{3605}$
- b. $\frac{6805}{2987}$
- c. $\frac{6907}{3971}$
- d. $\frac{6961}{2904}$

43. The following bar chart shows the number of accounts (in '00) opened in a month by 5 banks. (+1, -0.25)



The average money in each account of B1, B3 and B5 is ₹500. The average money in each account of B2 and B4 is ₹1,000. How much money is there in all the accounts that have been opened during the given month, in all the 5 banks, taken together?

- a. ₹1,30,00,000
- b. ₹1,20,00,000
- c. ₹1,25,00,000
- d. ₹1,45,00,000

44. If the cost price of 15 pencils is equal to the selling price of 10 pencils, what is the gain or loss percentage? (+1, -0.25)

- a. 20% gain
- b. 30% loss
- c. 50% gain
- d. 40% loss

45. Sandeep buys a toy car for ₹500 and sells it for ₹625. What is his gain or loss percentage? **(+1, -0.25)**
- a. 20% gain
 - b. 20% loss
 - c. 25% gain
 - d. 25% loss

46. If the rate of interest is 4% for the first year, 5% for the second year and 6% for the third year, then compound interest on ₹10,000 for 3 years, if interest is compounded annually? **(+1, -0.25)**
- a. ₹1,580.25
 - b. ₹1,575.20
 - c. ₹1,500.00
 - d. ₹1,570.50

47. Anjali decided to spend 45% of her salary on shopping. On completion of her shopping, she realised that she had spent only ₹11,475, which was 60% of what she had decided to spend. How much is Anjali's salary? **(+1, -0.25)**
- a. ₹40,800
 - b. ₹29,600
 - c. ₹38,400
 - d. ₹42,500

48. The largest possible right circular cylinder is cut out from a wooden cube of edge 7 cm. Find the volume of the cube left over after cutting the cylinder (in cm). (use $\pi = \frac{22}{7}$) (+1, -0.25)

- a. 73.5
- b. 63.5
- c. 87.5
- d. 67.5

49. Two beakers contain acid and water in the ratio 2 : 3 and 3 : 4 respectively. If equal volumes of the mixtures from these two beakers are poured into a common beaker, find the resultant ration of acid to water in the mixture in the common beaker. (+1, -0.25)

- a. 7 : 5
- b. 21 : 29
- c. 5 : 7
- d. 29 : 41

50. The radius of a circular wheel of a toy car is 56 mm. In how many revolutions can it cover a distance of 176 cm? [Use $\pi = \frac{22}{7}$] (+1, -0.25)

- a. 6
- b. 3
- c. 5

d. 4

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General English

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

The mountain lion is / one of the slyest and more / elusive animals in the woods.

- a. The mountain lion is
- b. one of the slyest and more
- c. No error
- d. elusive animals in the woods.

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

- a. Emergense
- b. Envisaige
- c. Psychologist
- d. Trancition

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

Overrun

- a. Invade
- b. Storm

- c. Inundate
 - d. Surrender
-

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

Many people may not find the rewards _____ with the time and effort required.

- a. commensurate
 - b. cautious
 - c. gleeful
 - d. insignificant
-

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

If we don't reverse course now, will anyone take anything we say about justice and _____ with any seriousness for decades to come?

- a. righteousness
 - b. mediation
 - c. wickedness
 - d. dishonesty
-

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

He is foaming at the mouth about the committee's decision.

- a. to not recognize something good
 - b. To be enraged and show it
 - c. to cause damage to someone
 - d. to be upset about something that happened in the past
-

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

- a. Disstract
 - b. Distract
 - c. Distarct
 - d. Destarct
-

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

Probe

- a. Search
 - b. Push
 - c. Invite
 - d. Motivate
-

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

You are looking so pretty on these black outfit.

- a. No improvement required
 - b. pretty in this
 - c. prettier in these
 - d. prettiest with those
-

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

He is the patient _____ called you in the morning.

- a. whom
 - b. that
 - c. who
 - d. which
-

61. The following sentence has been divided into parts. One of them may (+1, -0.25)

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.

They finally did what / we advice them to do / before the final match.

- a. we advice them to do
 - b. before the final match
 - c. They finally did what
 - d. No error
-

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

Made in imitation so as to be passed off fraudulently as genuine

- a. Counterfeit
 - b. Deliberate
 - c. Staunch
 - d. Authentic
-

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

Many people like playing cricket, but _____ my opinion, it is too chaotic.

- a. for
 - b. with
 - c. from
 - d. in
-

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

Impure

- a. Concentrated
- b. Segregated
- c. Sterile

d. Contaminated

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

If you plant a seed, / you will be noticed / that it takes some / time to grow.

- a. If you plant a seed
 - b. time to grow
 - c. that it takes some
 - d. you will be noticed
-

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

Back on one's feet

- a. Relive previous moments
 - b. To support the losing side
 - c. Forced to begin something again
 - d. Well or successful again
-

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

This cruise ship _____ in November and December.

- a. seals
- b. sells

- c. sales
 - d. sails
-

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

If you want to save your money, start living an _____ life.

- a. extravagant
 - b. indulgent
 - c. improper
 - d. economical
-

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

Clandestine

- a. Blatant
 - b. Ornate
 - c. Undercover
 - d. Open
-

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)

In India, processed foods becomes popular in the 20th century.

- a. become popular at
- b. No improvement required
- c. become popularity in
- d. became popular in

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 Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3) _____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation," the Army said in a statement.

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

- a. extracted
- b. accused
- c. imbibed
- d. issued

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 Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3) _____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation," the Army said in a statement.

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

- a. for
- b. from
- c. to
- d. since

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 Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3) _____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation," the Army said in a statement.

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

- a. deposited

- b. situated
- c. located
- d. set

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 Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3) _____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation," the Army said in a statement.

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

- a. soon
- b. late
- c. long
- d. blind

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 Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3)

_____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation,” the Army said in a statement.

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

- a. unnecessary
- b. optional
- c. gratuitous
- d. requisite

prepp

Your Personal Exams Guide

General Awareness

76. 'The Kiss of Life' is the autobiography of who among the following persons? (+1, -0.25)

- a. John Abraham
- b. Dino Morea
- c. Emraan Hashmi
- d. Sanjay Suri

77. In which state of India is Bhogali Bihu festival celebrated? (+1, -0.25)

- a. Assam
- b. Rajasthan
- c. Tamil Nadu
- d. Andhra Pradesh

78. Paika is a martial folk dance popular in which of the following states? (+1, -0.25)

- a. Odisha
- b. Kerala
- c. Gujarat
- d. Andhra Pradesh

79. Who is the author of the book 'Pride, Prejudice, and Punditry'? (+1, -0.25)

- a. Manish Sisodia
 - b. Pranab Mukherjee
 - c. Amitav Ghosh
 - d. Shashi Tharoor
-

80. Which of the following statements is INCORRECT? (+1, -0.25)

- a. A post-anal tail is present in Chordates.
 - b. Mollusca is the largest animal phylum.
 - c. Ctenophores are commonly known as sea walnuts.
 - d. Locust is an example of Arthropoda.
-

81. Which of the following teams won the Ranji trophy for the year 2019-20? (+1, -0.25)

- a. Mumbai
 - b. Bengal
 - c. Baroda
 - d. Saurashtra
-

82. At the beginning of November, the depression condition shifted over the Bay of Bengal. The transfer relates to a cyclical asset that generates rain above _____.

- a. Andaman Sea

- b. Caspian Sea
 - c. Japan sea
 - d. Pacific Ocean
-

83. In which of the following years was the Preamble of the Indian Constitution first amended? (+1, -0.25)

- a. 1968
 - b. 1955
 - c. 1976
 - d. 1988
-

84. The Lion Capital was built to commemorate the historical event of _____ of Buddha. (+1, -0.25)

- a. Renunciation
 - b. Enlightenment
 - c. His death or Parinirvana
 - d. First sermon
-

85. Which of the following rivers is also known as 'Bhagirathi' at the place of its origin? (+1, -0.25)

- a. Brahmaputra
- b. Yamuna

- c. Indus
 - d. Ganga
-

86. Which of the following railway zones has recently completed 100% electrification of its entire route? (+1, -0.25)

- a. South Central Railway
 - b. Konkan Railway
 - c. Harbour Railway
 - d. North Eastern Railway
-

87. Who of the following founded the Atmiya Samaj? (+1, -0.25)

- a. Swami Vivekananda
 - b. Bhimrao Ramji Ambedkar
 - c. Raja Ram Mohan Roy
 - d. Dayananda Saraswati
-

88. Aparna Satheesan, who won the prestigious National Nritya Shiromani Award 2022, is associated with which of the following dance forms? (+1, -0.25)

- a. Sattriya
- b. Kuchipudi
- c. Mohiniattam

d. Kathak

89. _____ is a motion moved by a member to cut short the debate on a matter before the House. (+1, -0.25)

- a. Closure
 - b. No-Confidence
 - c. Privilege
 - d. Censure
-

90. The Battle of Khanwa was fought between: (+1, -0.25)

- a. Babur and Ibrahim Lodi
 - b. Babur and Rana Sangha
 - c. Sher Shah Suri and Rana Sangha
 - d. Babur and Sher Shah Suri
-

91. Which of the following is the oldest Veda? (+1, -0.25)

- a. Samaveda
 - b. Rigveda
 - c. Atharvaveda
 - d. Yajurveda
-

92. Which of the statements given below is correct? (+1, -0.25)

- I. Deforestation reduces the amount of CO₂ in the air.
 - II. Carbon dioxide (CO₂) gets fixed and does not diffuse into the air.
- a. Only I
 - b. neither I nor II
 - c. Both I and II
 - d. Only II

93. Who became the first Governor-General of India in 1773? (+1, -0.25)

- a. Robert Clive
- b. Thomas Munro
- c. Warren Hastings
- d. Charles Cornwallis

94. Which of the following is NOT an institutional factor for agriculture? (+1, -0.25)

- a. Land reforms
- b. Electricity
- c. Size of fields
- d. Land tenure

95. As per the 2011 census, which of the following states of India has the least population? (+1, -0.25)

- a. Sikkim
- b. Bihar
- c. Kerala
- d. Chhattisgarh

96. Pandit Ram Narayan was associated with which musical instrument? (+1, -0.25)

- a. Flute
- b. Sarod
- c. Sarangi
- d. Guitar

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

- a. Milk
- b. Mist
- c. Gemstone
- d. Clouds

98. India won the bronze medal (the only one won by India) in which team sports at the Tokyo Olympics 2020? (+1, -0.25)

- a. Basketball
 - b. Field hockey
 - c. Badminton
 - d. Table tennis
-

99. _____ won the women's singles title at the Swiss Open Super 300 badminton tournament 2022. (+1, -0.25)

- a. PV Sindhu
 - b. Kirsty Gilmour
 - c. Ashmita Chaliha
 - d. Busanan Ongbamrungphan
-

100. According to the census 2011, the second highest populated metro in India is: (+1, -0.25)

- a. Bengaluru
- b. Chennai
- c. Delhi
- d. Mumbai

Answers

1. Answer: a

Explanation:

The logic followed here is:

$$30 \times 0.5 = 15$$

$$15 \times 1 = 15$$

$$15 \times 1.5 = 22.5$$

$$22.5 \times 2 = 45 \neq 46$$

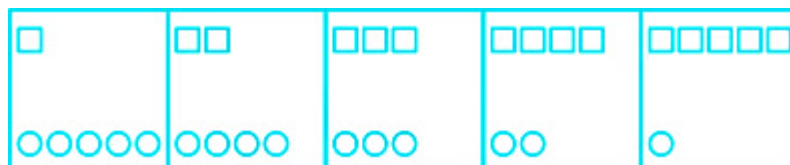
$$45 \times 2.5 = 112.5$$

Hence, '46' is the correct answer.

2. Answer: c

Explanation:

The figure from among the given options that can replace the question mark(?) in the following series is shown below:



As we move along the series,

The number of squares increases by one and the number of circle decreases by one.

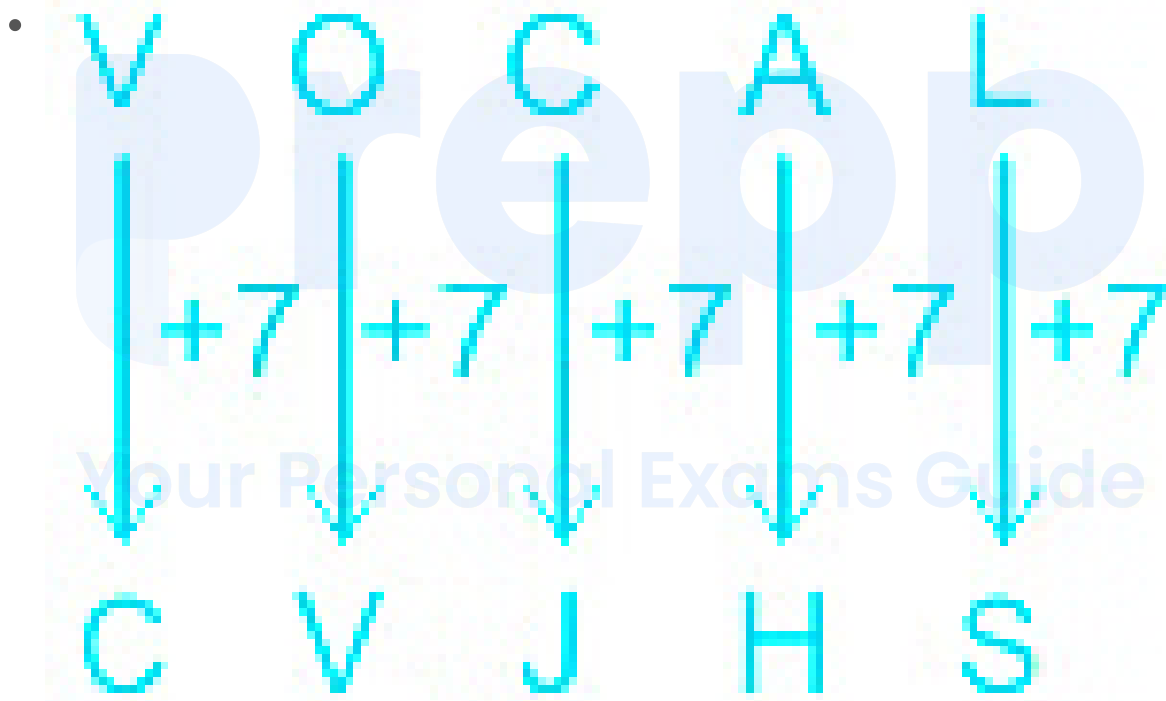
Hence, 'option 3' is the correct answer.

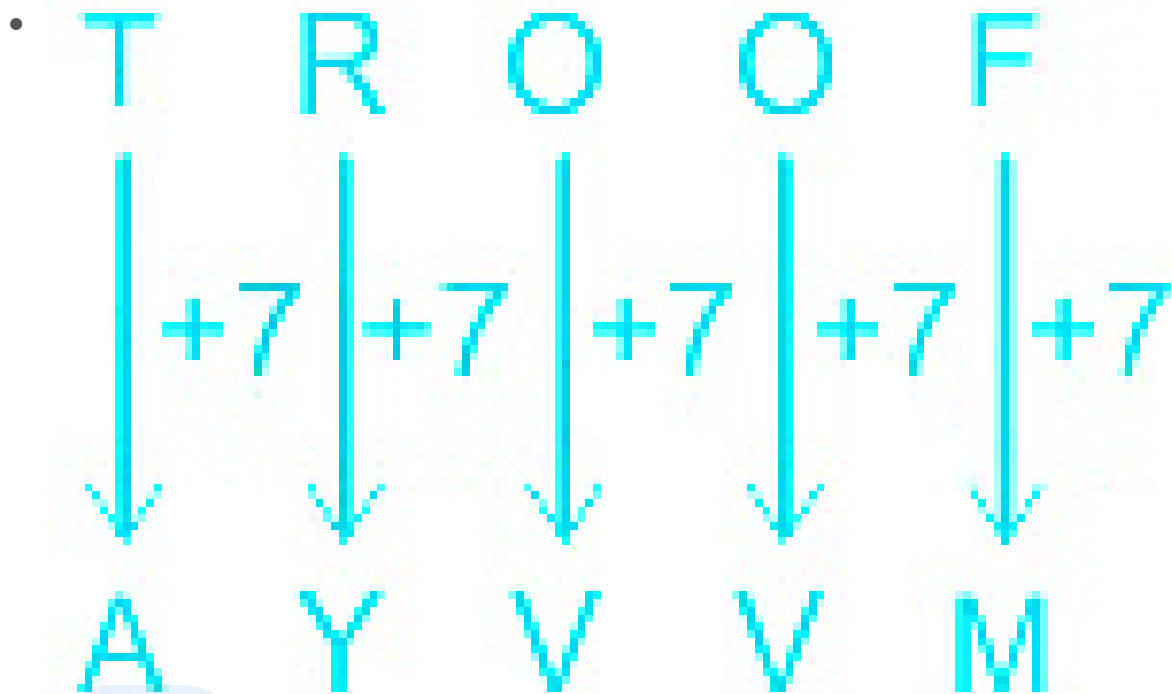
3. Answer: d

Explanation:

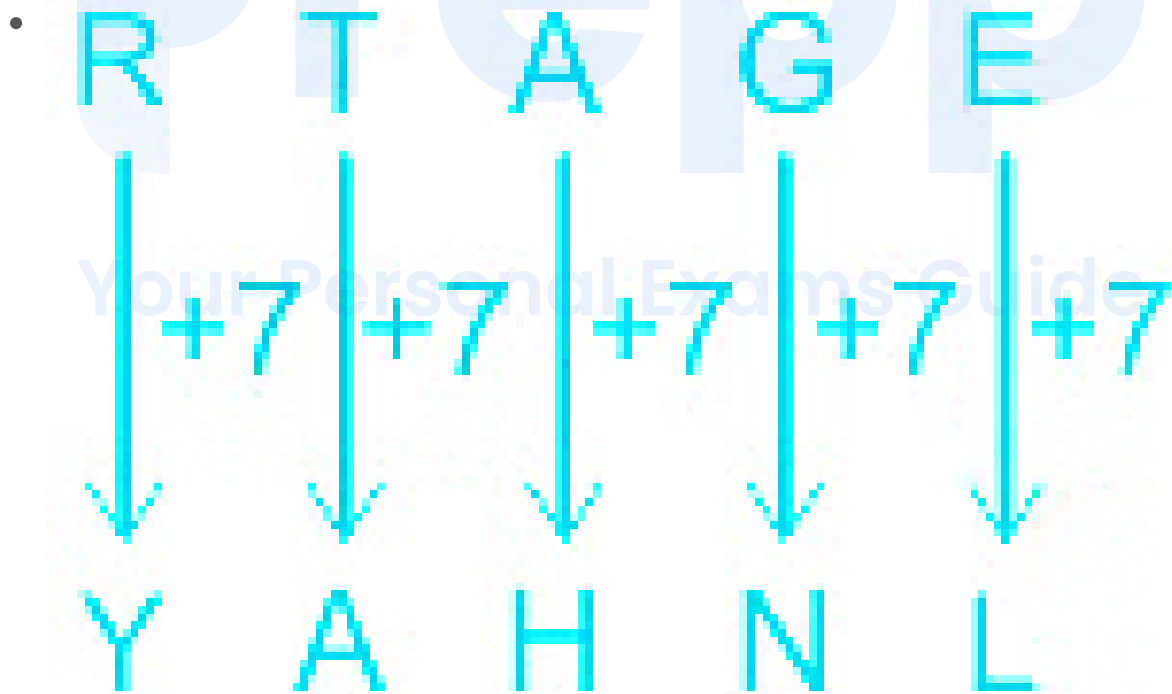
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:





Similarly,

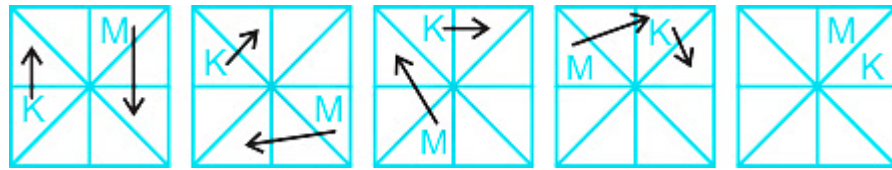


Hence, 'YAHNL' is the correct answer.

4. Answer: a

Explanation:

The figure from among the given options that can replace the question mark(?) in the following series is shown below:



On close observation, we can see the letter K is changing its position in clockwise direction, by shifting one place at a time.

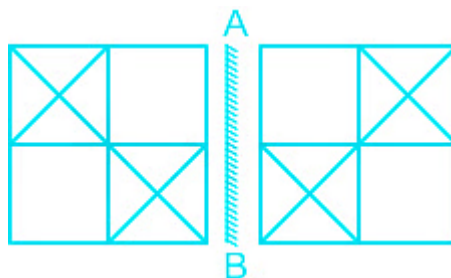
On close observation, we can see the letter M is changing its position in clockwise direction, by shifting two places at a time.

Hence, 'option 1' is the correct answer.

5. Answer: b

Explanation:

The correct mirror image of the given figure when the mirror is placed at line AB is shown below:



Hence, 'option 2' is the correct answer.

6. Answer: a

Explanation:

If

- 'White' is called 'Blue'
- 'Blue' is called 'Red'
- 'Red' is called 'Yellow'
- 'Yellow' is called 'Green'
- 'Green' is called 'Black'
- 'Black' is called 'Violet'
- 'Violet' is called 'Orange'

The colour of human blood is Red and 'Red' is called 'Yellow'.

Therefore, 'Yellow' would be the colour of human blood.

Hence, 'Yellow' is the correct answer.

7. Answer: a

Explanation:

The logic followed here is:



Hence, '677' is the correct answer.

8. Answer: d

Explanation:

The least possible Venn diagram is:



I. Some mocks are local. → Does not follow (As, there is no definite relation between mocks and local. So, It is possible but not definitely true. Hence, false)

II. No mock is a local. → Does not follow (As, there is no definite relation between mocks and local. It is possible but not definitely true. Hence, false)

But the conclusion I and II are complementary to each other. So, either conclusion I or II follows.

Hence, **either conclusion I or II follows** .

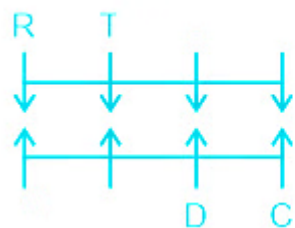
9. Answer: c

Explanation:

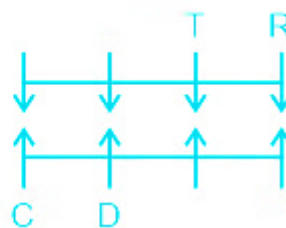
Four boys **R, S, T and U** are sitting in a row, facing towards the south (but not necessarily in the same order). Four girls **A, B, C and D** are sitting in a row, facing towards the face of these boys (but not necessarily in the same order).

1. C and R are diagonally opposite to each other.
2. T is the immediate neighbour of R.
3. D is the immediate neighbour of C.

Case -1

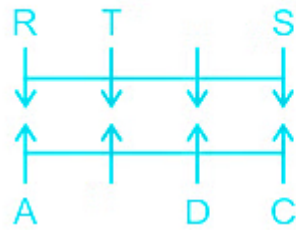


Case -2

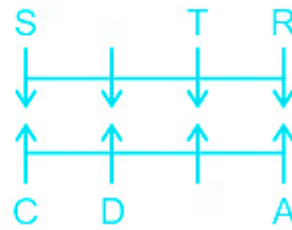


4. A and S are diagonally opposite to each other.

Case -1



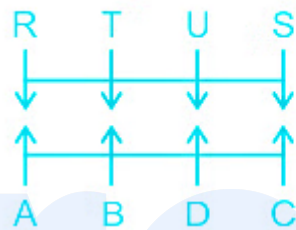
Case -2



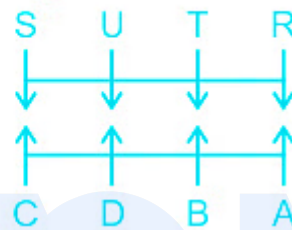
U and B will occupy the vacant positions in the respective rows.

The final arrangement will be as shown below:

Case -1



Case -2



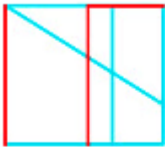

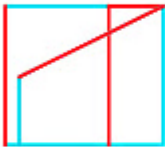

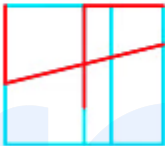



Clearly, U is facing D.

Hence, 'U' is the correct answer.

10. Answer: d

Explanation:

The option in which the given figure is embedded when rotation is NOT allowed is shown below:

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

Hence, 'option 4' is the correct answer.

11. Answer: b

Explanation:

Given equation: $83 + 711 - 95 \div 9 \times 2 = 20$

1. 9 and 2

$83 + 711 - \underline{95 \div 2} \times 9 = 20$

$\Rightarrow 83 + 711 - \underline{47.5 \times 9} = 20$

$$\Rightarrow \underline{83 + 711} - 427.5 = 20$$

$$\Rightarrow \underline{794} - \underline{427.5} = 20$$

$$\Rightarrow 366.5 \neq 20$$

2. 711 and 95

$$83 + 95 - \underline{711} \div 9 \times 2 = 20$$

$$\Rightarrow 83 + 95 - \underline{79} \times 2 = 20$$

$$\Rightarrow \underline{83 + 95} - 158 = 20$$

$$\Rightarrow \underline{178} - 158 = 20$$

$$\Rightarrow 20 = 20$$

3. 95 and 83

$$95 + 711 - \underline{83} \div 9 \times 2 = 20$$

$$\Rightarrow 95 + 711 - \underline{9.22} \times 2 = 20$$

$$\Rightarrow \underline{95 + 711} - 18.44 = 20$$

$$\Rightarrow \underline{806} - \underline{18.44} = 20$$

$$\Rightarrow 787.56 \neq 20$$

4. 2 and 83

$$2 + 711 - \underline{95} \div 9 \times 83 = 20$$

$$\Rightarrow 2 + 711 - \underline{10.55} \times 83 = 20$$

$$\Rightarrow \underline{2 + 711} - 875.65 = 20$$

$$\Rightarrow \underline{713} - \underline{875.65} = 20$$

$$\Rightarrow -162.65 \neq 20$$

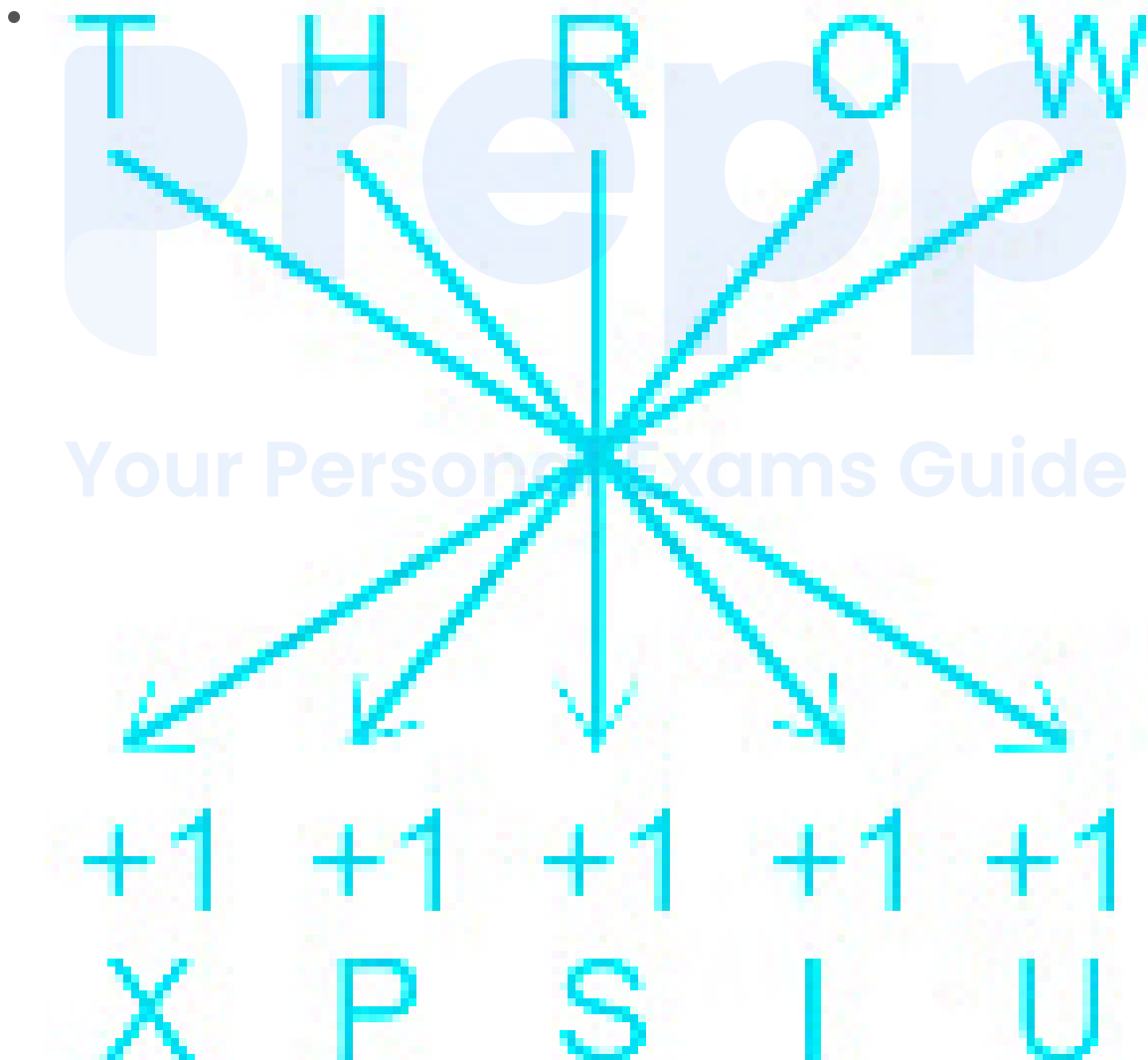
Hence, '711 and 95' is the correct answer.

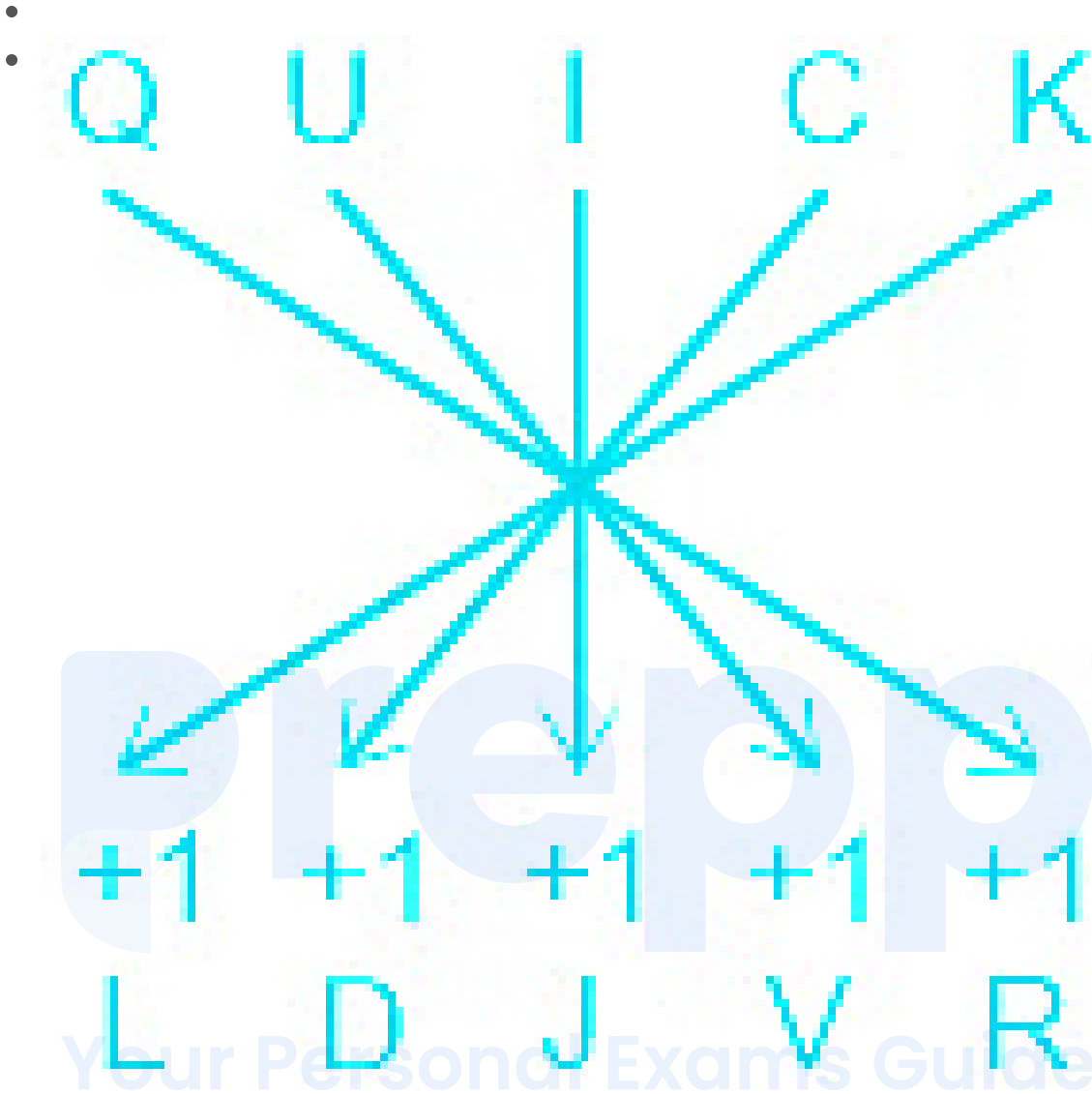
12. Answer: b

Explanation:

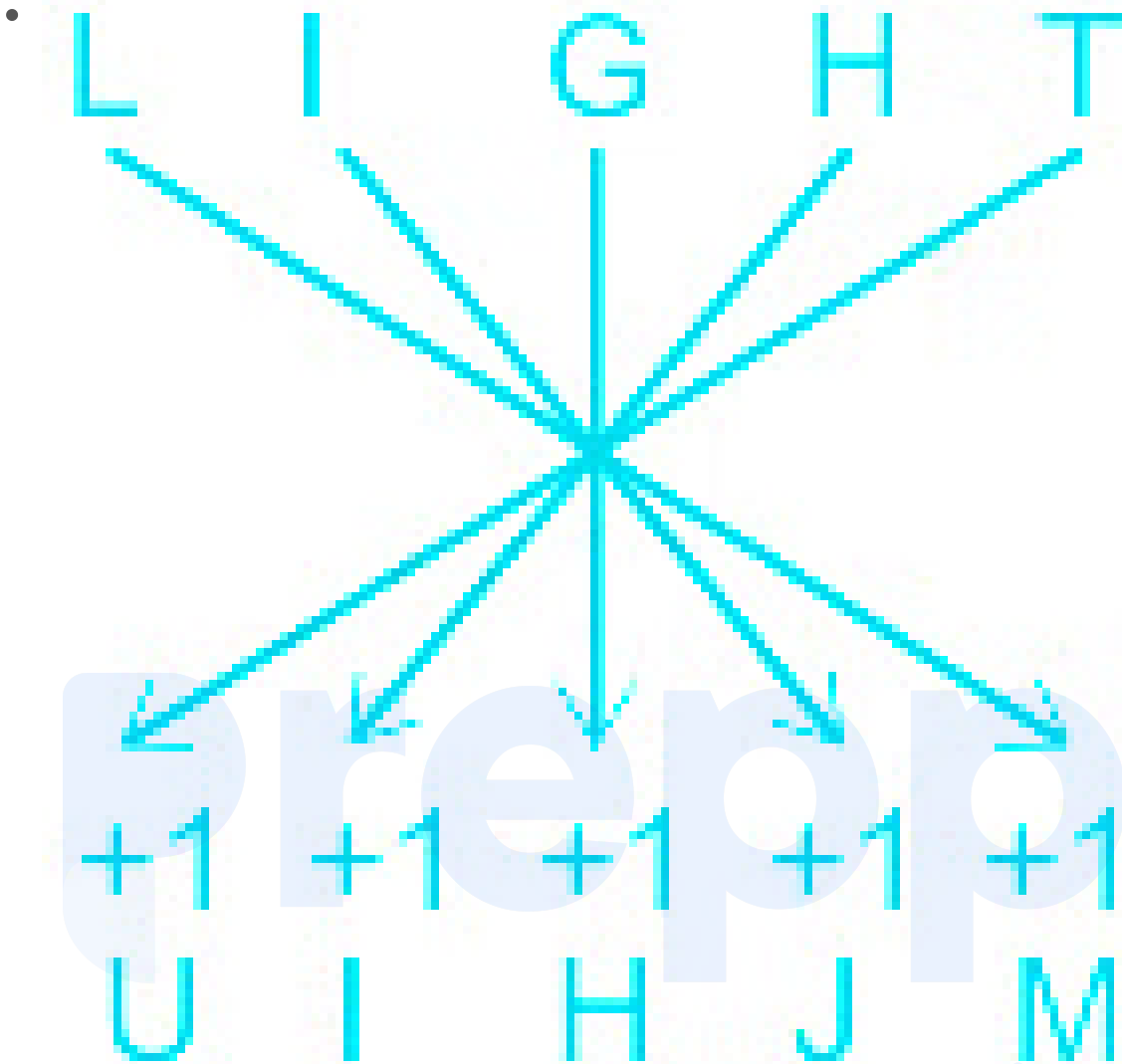
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:





Similarly,



Hence, 'UIHJM' is the correct answer.

13. Answer: d

Explanation:

The logic followed here is:

$$(\text{First Number})^3 + 16 = \text{Second Number}$$

- 6 : 232 $\rightarrow 6^3 + 16 = 216 + 16 = 232$
- 10 : 1016 $\rightarrow 10^3 + 16 = 1000 + 16 = 1016$

Similarly,

- $8 : ? \rightarrow 8 \times 3 + 16 = 512 + 16 = 528$

Hence, '528' is the correct answer.

14. Answer: b

Explanation:

The speeds of seven cars **C1, C2, C3, C4, C5, C6 and C7** are compared. All cars have different speeds.

1. The speed of C1 is more than only two cars.

$$\text{---} > \text{---} > \text{---} > \text{---} > \text{C1} > \text{---} > \text{---}$$

2. The speed of C6 is more than C4 and less than C5.

$$\text{C5} > \text{C6} > \text{C4}$$

3. The speeds of C2 and C3 are the highest and the lowest, respectively.

$$\text{C2} > \text{---} > \text{---} > \text{---} > \text{C1} > \text{---} > \text{C3}$$

4. The speed of C4 is more than C1.

$$\text{C4} > \text{C1}$$

Combining all the statements, we get:

$$\text{C2} > \text{C5} > \text{C6} > \text{C4} > \text{C1} > \text{---} > \text{C3}$$

C7, the only car left will occupy the vacant position.

$$\text{C2} > \text{C6} > \text{C5} > \text{C4} > \text{C1} > \text{C7} > \text{C3}$$

Clearly, the speed of only one car is less than C7.

Hence, '1' is the correct answer.

15. Answer: a

Explanation:

The logic followed here is:

$$(\text{First number} \times 5) + 1 = \text{Second number}$$

- $123 : 616 \rightarrow (123 \times 5) + 1 = 615 + 1 = 616$
- $147 : 736 \rightarrow (147 \times 5) + 1 = 735 + 1 = 736$

Similarly,

- $211 : ? \rightarrow (211 \times 5) + 1 = 1055 + 1 = 1056$

Hence, '1056' is the correct answer.

16. Answer: d

Explanation:

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

The logic followed here is:

$$\begin{array}{l}
 G \xrightarrow{+2} I \xrightarrow{+2} K \xrightarrow{+2} M \xrightarrow{+2} O \\
 O \xrightarrow{-2} M \xrightarrow{-2} K \xrightarrow{-2} I \xrightarrow{-2} G \\
 A \xrightarrow{+2} C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \\
 L \xrightarrow{-2} J \xrightarrow{-2} H \xrightarrow{-2} F \xrightarrow{-2} D
 \end{array}$$

Hence, 'OGID' is the correct answer.

17. Answer: d

Explanation:

The code for each word is shown below:

③ 2 1 → cold filtered coffee
 6 5 ③ → very cold day
 9 8 5 → day and night

Clearly, 6 is the code for 'very' in the same language.

Hence, '6' is the correct answer.

18. Answer: a

Explanation:

The code for each word is shown below:

grapes are multi red → 8 6 4 ③
 red people eat mango → 7 4 5 2
 mango multi apple → ③ 5 0

Code of:

Red - 4

Apple - 0

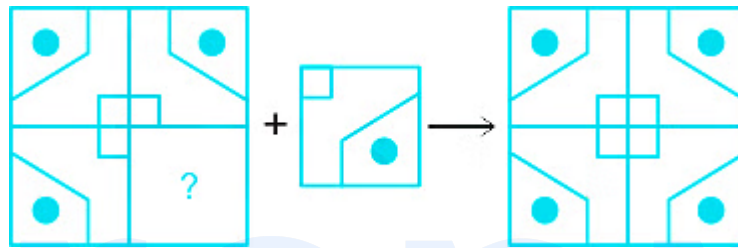
Clearly, 'red apple' will be coded as '4 0' in that language.

Hence, '40' is the correct answer.

19. Answer: a

Explanation:

The figure from the options that can replace the question mark(?) and complete the pattern when rotation is not allowed is shown below:



Hence, 'option 1' is the correct answer.

20. Answer: c

Explanation:

After interchanging the given two signs and two numbers (\div and $+$; 7 and 15), the value of the following expression will be:

\div and $+$; 7 and 15

$$5 \div 35 + 15 \times 6 - 7 = ?$$

$$5 + \underline{35 \div 7} \times 6 - 15 = ?$$

$$\Rightarrow 5 + \underline{5 \times 6} - 15 = ?$$

$$\Rightarrow \underline{5 + 30} - 15 = ?$$

$$\Rightarrow \underline{35 - 15} = ?$$

$\Rightarrow 20 = ?$

Hence, '20' is the correct answer.

21. Answer: a

Explanation:

The logic followed here is:

Canberra : Australia \rightarrow Canberra is the capital of Australia.

Similarly,

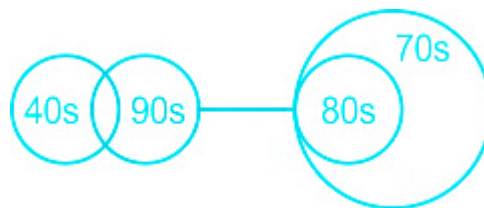
Doha : ? \rightarrow Doha is the capital of Qatar.

Hence, 'Qatar' is the correct answer.

22. Answer: c

Explanation:

The least possible Venn diagram is:



Conclusions:

I. All 80s being 40s is a possibility. \rightarrow **Follows** (As, No 90s are 80s and Some 90s are 40s \rightarrow It is possible that all 80s can be 40s as there is no definite relation between 80s and 40s)

II. Some 70s are not 90s. → **Follows** (As, No 90s are 80s and All 80s are 70s → Some 70s are not 90s)

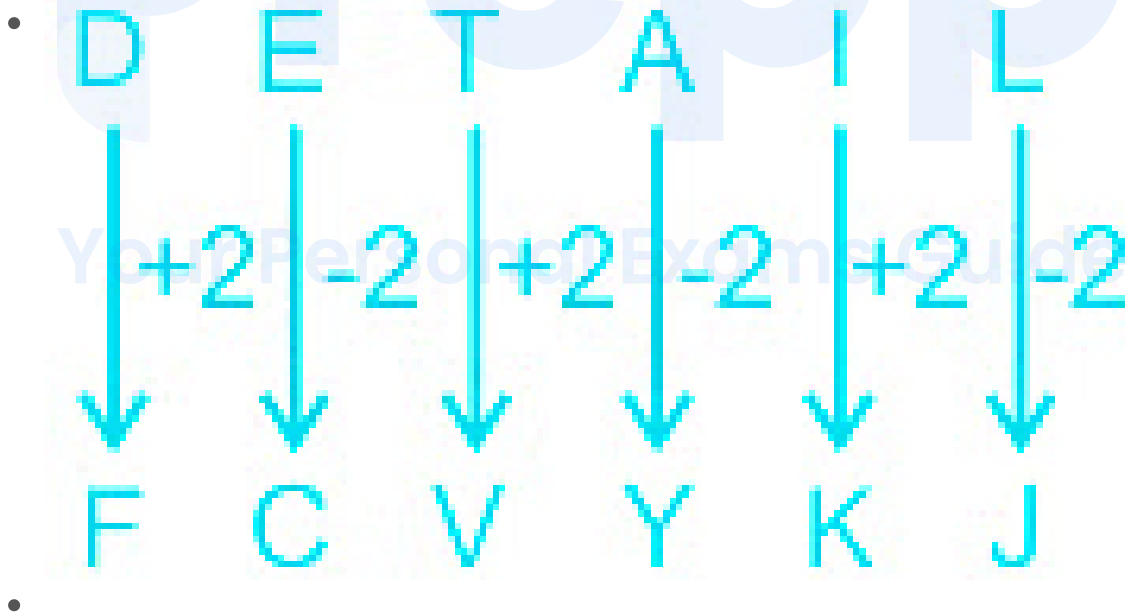
Hence, **both conclusions I and II follow** .

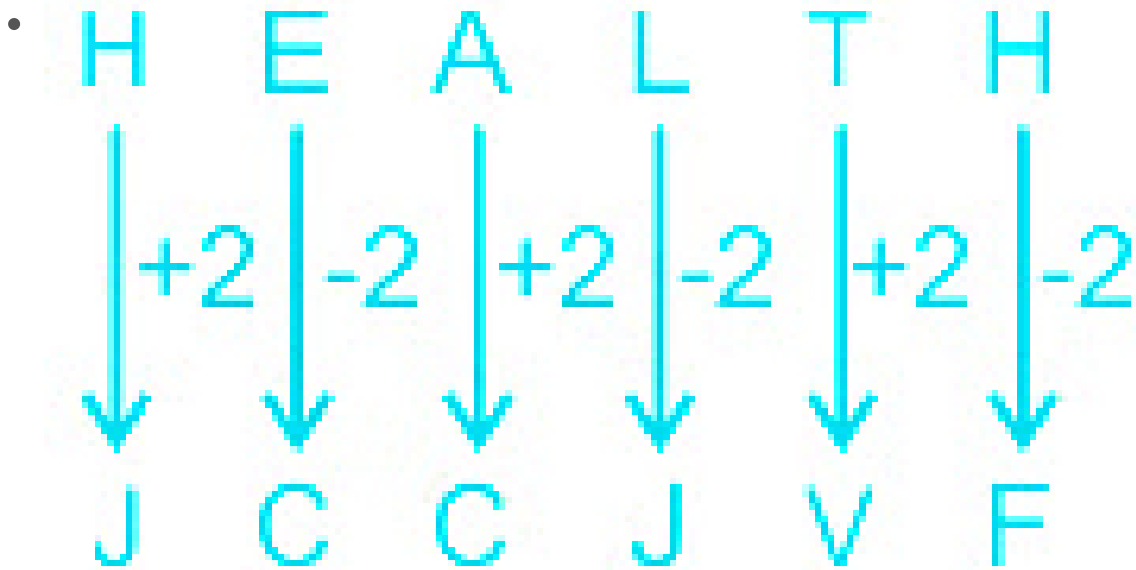
23. Answer: c

Explanation:

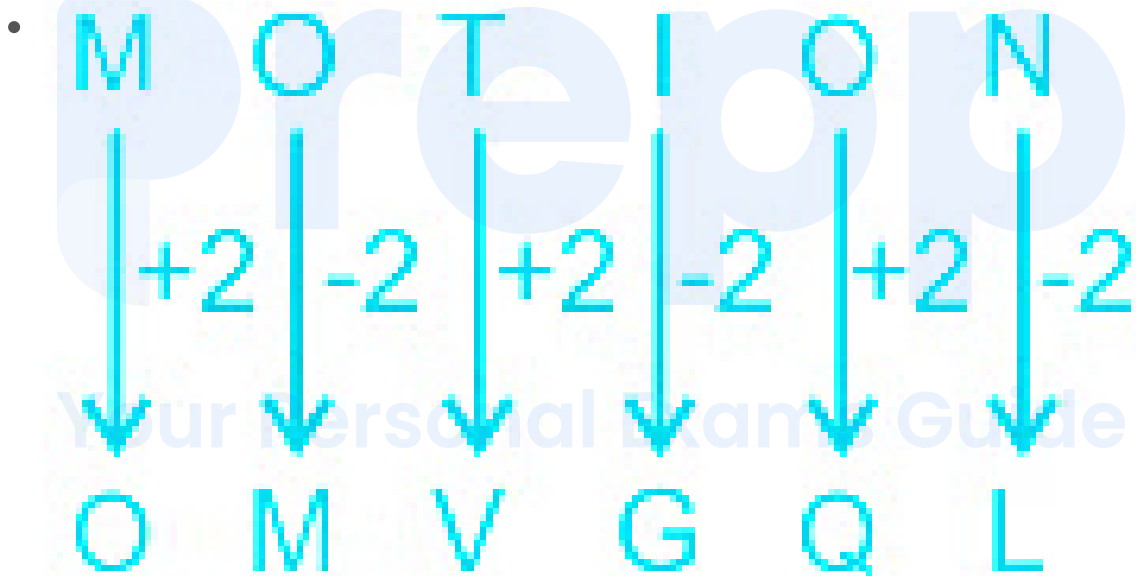
Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic followed here is:





Similarly,

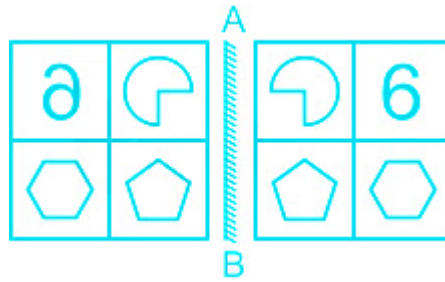


Hence, 'OMVGQL' is the correct answer.

24. Answer: d

Explanation:

The correct mirror image of the given figure when the mirror is placed to its right side is shown below:



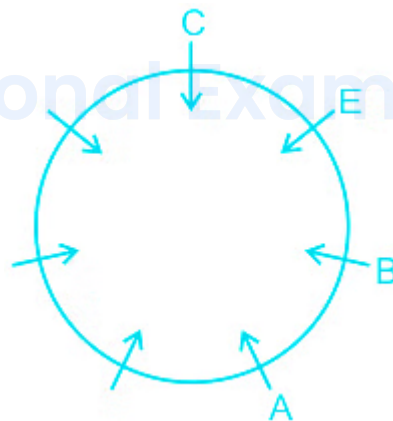
Hence, 'option 4' is the correct answer.

25. Answer: c

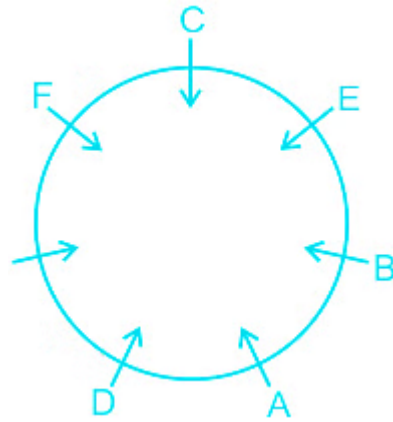
Explanation:

Seven girls **A, B, C, D, E, F** and **G** are sitting around a circular table facing opposite the center (not necessarily in the same order).

1. E is second to the right of A.
2. C is the immediate neighbour of E.
3. B is the immediate neighbour of E and A.

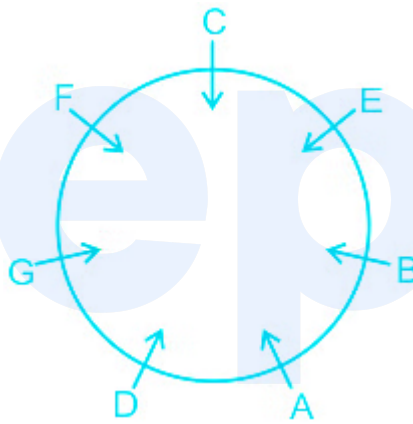


4. D is third to the right of C.
5. F is fourth to the right of A.



G, the only person left will occupy the vacant position.

The final arrangement will be as shown below:



I. D is next to the right of G. → True

II. A is third to the left of B. → False

Clearly, only I is true.

Hence, 'Only I' is the correct answer.

26. Answer: c

Explanation:

Given:

The average mark of 3 students is X .

If the marks of a new student are also considered, then the average marks increased by 2.

Concept used:

Total = Average \times Number of entities

Calculation:

Total marks of 3 students = $X \times 3 = 3X$

Now, the marks of the new student

$$\Rightarrow (X + 2) \times (4) - 3X$$

$$\Rightarrow X + 8$$

\therefore The marks obtained by the new student is $X + 8$.

27. Answer: c

Explanation:

Given:

A's capital : B's capital = 5 : 6

A's time = 8 months

A's profit : B's profit = 5 : 9

Formula used:

A's profit : B's profit = A's capital \times A's time : B's capital \times B's time

Calculation:

A's profit : B's profit = $5 \times 8 : 6 \times t$

$$\Rightarrow 5 : 9 = 40 : 6t$$

$$\Rightarrow 5 : 9 = 20 : 3t$$

$$\Rightarrow t = (20 \times 9)/(5 \times 3)$$

$$\Rightarrow t = 12$$

\therefore The number of months B's capital was used in the business is 12 months

28. Answer: d

Explanation:

Given:

A person travels half of the distance at a speed of 18 km/h and the remaining half of the journey at a speed of 22 km/h

Concept used:

Distance = Speed \times Time

Average speed = $2S_1S_2/(S_1 + S_2)$

Calculation:

Here, $S_1 = 18$ km/h

$S_2 = 22$ km/h

Average speed = $2S_1S_2/(S_1 + S_2)$

Average speed = $2 \times 18 \times 22 / (18 + 22)$

$\Rightarrow 19.8$ km/h

\therefore His average speed during the entire journey is 19.8 km/h.

29. Answer: b

Explanation:

Calculation:

D 1 and D 2 can do a piece of work together in 16 days

D 2 and D 3 can do the same work together in 24 days

D 3 and D 1 can do it together in 48 days

Total work = LCM (16, 24, 48) = 48 units

Efficiency of D 1 and D₂ = $48/16 = 3$

Efficiency of D 2 and D 3 = $48/24 = 2$

Efficiency of D 3 and D 1 = $48/48 = 1$

Efficiency of D₁, D₂ and D₃ = $(3 + 2 + 1)/2 = 3$

Total work = 48 unit

⇒ $5/6$ of the total work = $48 \times (5/6)$

⇒ 40

Days to complete 40 units of work when working together = $40/3$ days.

∴ Option 2 is the correct answer.

30. Answer: d

Explanation:

Given:

E% of 12.5% of 480 = 72

Calculation:

⇒ E% of 12.5% of 480 = 72

$$\Rightarrow \frac{E}{100} \times \frac{12.5}{100} \times 480 = 72$$

$$\Rightarrow E = \frac{(72 \times 100 \times 100)}{(480 \times 12.5)}$$

⇒ E = 120

∴ **Option 4 is the correct answer.**

31. Answer: b

Explanation:

Given:

In a job, Z1, Z2, and Z3 work for 8, 10 and 15 days, respectively.

The ratio of the daily wages of Z1, Z2, and Z3 is 3 : 4 : 4, respectively.

They receive ₹4960 as the total wages.

Concept used:

The wage amount is already distributed among the workers according to the ratio of their work done.

Calculation:

So, the final ratio of their wages

$$\Rightarrow 8 \times 3 : 10 \times 4 : 15 \times 4$$

$$\Rightarrow 24 : 40 : 60$$

$$\Rightarrow 6 : 10 : 15$$

Now, Z 2 , and Z 3 share = $4960 \times 25 / (6 + 10 + 15) = ₹4000$

∴ Option 2 is the correct answer.

32. Answer: d

Explanation:

Given :

Height of cone = 15 cm

Area of base = 616 cm^2

Formula used :

Volume of cone = $(1/3) \times (\text{area of base}) \times (\text{height})$

⇒ Volume of cone = $(1/3) \times (616) \times (15)$

⇒ Volume of cone = 616×5

∴ Volume of cone is 3080 cm^3

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33. Answer: c

Explanation:

Given:

$$A = [50 - 4 \times 5 + \{6 \div 3 - 1\}]$$

Calculation:

$$A = [50 - 4 \times 5 + \{6 \div 3 - 1\}]$$

$$\Rightarrow A = [50 - 4 \times 5 + \{2 - 1\}]$$

$$\Rightarrow A = [50 - 4 \times 5 + 1]$$

$$\Rightarrow A = [50 - 20 + 1]$$

$$\Rightarrow A = 31$$

\therefore Option 3 is the correct answer.

34. Answer: b

Explanation:

Calculation:

Discipline of mathematics in colleges P and R taken together = $(30/100 \times 8000) + (40/100 \times 15000)$

$$\Rightarrow 2400 + 6000$$

$$\Rightarrow 8400 \text{ students}$$

Total number of students in colleges P and R taken together = $8000 + 15000$

$$\Rightarrow 23000 \text{ students}$$

Percentage of students of mathematics in colleges P and R taken together to the total number of students in colleges P and R taken together = $8400/23000 \times 100$

$$\Rightarrow 8400/230 = 36.5\%$$

\therefore Option 2 is the correct answer.

35. Answer: c

Explanation:

Given:

Upstream Distance = 5 km

Time taken = 15 min

The ratio of the speed of the boat in still water to that of the stream is 6 : 1.

Formula Used:

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Calculations:

Let the speed of the boat in still water be $6x$ and the speed of boat in the stream be x .

Upstream speed = $6x - x = 5x$

$$\Rightarrow \text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\Rightarrow 5x = 5 / (15/60)$$

$$\Rightarrow 5x = (5 \times 60) / 15$$

$$\Rightarrow 5x = 20$$

$$\Rightarrow x = 4 \text{ km/hr}$$

So, the speed of the boat in still water is 24 km/h and the speed of the boat in the stream is 4 km/h.

Downstream speed = $24 + 4 = 28 \text{ km/h}$

Downstream distance = 19.6 km

$$\text{Downstream time} = \frac{19.6}{28}$$

$$\Rightarrow \text{Downstream time} = 0.7 \text{ h} = 0.7 \times 60 = 42 \text{ minutes.}$$

\therefore Option 3 is the correct answer.

36. Answer: a

Explanation:

Given:

The retailer bought 50 kg of Arhar Dal at a discount of 20%

The shopkeeper offered 2 kg Arhar Dal for free.

Formula used:

$$\text{Profit \%} = (\text{Profit}/\text{Cost price}) \times 100$$

Calculation:

Let the cost of rice be Rs. x per kg

$$\Rightarrow \text{Price of 50 kg Arhar Dal} = \text{Rs. } 50x$$

But he bought it at a discount of 20%

$$\Rightarrow \text{Cost Price of Arhar Dal for Retailer} = \text{Rs. } (50x \times 80/100) = \text{Rs. } 40x$$

$$\Rightarrow \text{The price of an extra 2 kg Arhar Dal} = \text{Rs. } 2x$$

Retailer didn't paid Rs. $2x$ though he got $(50 + 2)$ kg = 52 kg of Arhar Dal

But he sold the 52 kg Arhar Dal at a price Rs. $52x$

$$\Rightarrow \text{Profit gained by him} = (52x - 40x) = 12x$$

$$\Rightarrow \text{Profit percentage} = (12x/40x) \times 100$$

$$\Rightarrow 30 \%$$

\therefore Option 1 is the correct answer.

37. Answer: b

Explanation:

Given:

There are 32 consecutive natural numbers.

The average of the first 13 numbers is X.

Concept Used:

Average of the consecutive number of odd number of terms = (first number + last number)/2 or middle number.

Calculation:

The average of the first 13 numbers is X.

As we know that the average is the middle number of the series. Because we know that numbers are consecutive.

So in the first 13 numbers, 7th number will be the middle as well as the average of these numbers which is equal to 'X'.

$$13\text{th number} = X+6$$

$$14\text{th number} = X+7$$

$$\text{Similarly } 32\text{nd number} = X+25$$

So in the next 19 numbers, the first number will be (X+7) and the last one will be (X+25)

$$\text{Average of the next 19 numbers} = (\text{first number} + \text{last number})/2$$

$$\Rightarrow [(X + 7) + (X + 25)]/2$$

$$\Rightarrow (2X + 32)/2$$

$$\Rightarrow X + 16$$

\therefore Option 2 is the correct answer.

38. Answer: b

Explanation:

Since ratio of the two numbers is 3 : 7,

Let the two numbers be $3x$ and $7x$.

According to question,

$$7x + 3x = 180$$

$$\Rightarrow 10x = 180$$

$$\Rightarrow x = 18$$

$$\text{Their difference} = 7x - 3x = 4x$$

$$\Rightarrow 4 \times 18 = 72$$

\therefore Option 2 is the correct answer.

39. Answer: d

Explanation:

Given:

Product of two number = 432

HCF = 6

Concept Used:

LCM = Product of two number/HCF

Calculation:

Product of two number = 432

HCF = 6

LCM = Product of two number/HCF

⇒ LCM = $432/6$

⇒ LCM = 72

∴ Option 4 is the correct answer.

40. **Answer: c**

Explanation:

Calculation:

Sales in July = 45°

Sales from July to November = 45° + 50° + 80° + 90° + 95° = 360°

Percentage of the sales in July to the total sales from July to November = $\frac{45^\circ}{360^\circ} \times 100$

⇒ 12.5%

∴ Option 3 is the correct answer.

41. **Answer: b**

Explanation:

Given:

Compound Interest = ₹2050

Rate = 5%

Principal = ₹20,000

Concept Used:

Compound Interest = $P[(1 + R/100)^T - 1]$

Calculation:

Compound Interest = $P[(1 + R/100)^T - 1]$

$$\Rightarrow 2050 = 20000[(1 + 5/100)^T - 1]$$

$$\Rightarrow 2050/20000 = (1 + 5/100)^T - 1$$

$$\Rightarrow 2050/20000 + 1 = (1 + 5/100)^T$$

$$\Rightarrow 22050/20000 = (21/20)^T$$

$$\Rightarrow 441/400 = (21/20)^T$$

$$\Rightarrow (21/20)^2 = (21/20)^T$$

$$\Rightarrow T = 2 \text{ years}$$

∴ Option 2 is the correct answer.

42. Answer: d

Explanation:

Calculation:

$$\frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{33}{16} - \frac{5}{12} + \left(\frac{6}{11} - \frac{5}{12} + \frac{7}{22} \right) \right]$$

$$\Rightarrow \frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{33}{16} - \frac{5}{12} + \left(\frac{72-55+42}{132} \right) \right]$$

$$\Rightarrow \frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{33}{16} - \frac{5}{12} + \frac{59}{132} \right]$$

$$\Rightarrow \frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{(1089 - 220 + 236)}{528} \right]$$

$$\Rightarrow \frac{7}{8} + \frac{8}{11} \text{ of } \frac{1105}{528}$$

$$\Rightarrow \frac{7}{8} + \frac{1105}{726}$$

$$\Rightarrow \left[\frac{2541 + 4420}{2904} \right]$$

$$\Rightarrow \left[\frac{6961}{2904} \right]$$

∴ Option 4 is the correct answer.

43. Answer: a

Explanation:

Calculation:

The average money in each account of B1, B3 and B5 is ₹500.

Total number of accounts in bank B1, B3, and B5 taken together = 4000 + 3000 + 3600 = 10600

Total money in the accounts of bank B1, B3, and B5 taken together = 500 × 10600 = ₹5300000

The average money in each account of B2 and B4 is ₹1,000.

Total number of accounts in bank B2 and B4 taken together = 4500 + 3200 = 7700

Total money in the accounts of bank B2 and B4 taken together = 1000 × 7700 = ₹7700000

Total money in all the accounts that have been opened during the given month, in all the 5 banks, taken together

$$\Rightarrow 5300000 + 7700000 = 1,30,00,000$$

44. Answer: c

Explanation:

Given:

Cost price of 15 pencil = selling price of 10 pencil

Calculation:

Let selling price be SP and cost price be CP of one pencil.

$$CP \times 15 = SP \times 10$$

$$SP/CP = 15/10 = 3/2$$

$$SP - CP = P$$

$$\text{So, } P/CP = (3 - 2)/2 = 1/2$$

$$\text{Profit percentage} = P/CP \times 100 = (1/2) \times 100 = 50\%$$

\therefore The gain percentage is 50%.

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45. Answer: c

Explanation:

Given:

Cost Price of toy car = ₹500

Selling Price of toy car = ₹625

Concept Used:

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

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

$$\text{Gain or Loss percentage} = \left[\frac{(\text{Gain or Loss})}{\text{CP}} \right] \times 100$$

Calculation:

$$\text{CP} = ₹500$$

$$\text{SP} = ₹625$$

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

$$\Rightarrow 625 - 500 = 125$$

$$\text{Gain \%} = \frac{\text{Gain}}{\text{CP}} \times 100$$

$$\Rightarrow \frac{125}{500} \times 100$$

$$\Rightarrow 25\%$$

∴ Option 3 is the correct answer.

46. Answer: b

Explanation:

Given:

Rate of interest for first year = 4%

Rate of interest for second year = 5%

Rate of interest for third year = 6%

Principal = ₹10,000

Time = 3 years

Concept Used:

$$\text{Compound Interest} = P[(1 + R/100)^T - 1]$$

Calculation:

$$P = ₹10,000$$

$$R\% = 4\%, 5\% \text{ and } 6\%$$

$$T = 3 \text{ years}$$

$$CI = 10000[(1 + 4/100) \times (1 + 5/100) \times (1 + 6/100) - 1]$$

$$\Rightarrow 10000[(26/25 \times 21/20 \times 53/50) - 1]$$

$$\Rightarrow 10000[(28938 - 25000)/25000]$$

$$\Rightarrow 10000 \times 3938/25000$$

$$\Rightarrow 1575.2$$

\therefore Option 2 is the correct answer.

47. Answer: d

Explanation:

Given:

Percentage of salary decided to be spent on shopping = 45%

Actual spent of Rs. 11475 which was 60% of what was decided earlier

Calculation:

Let Anjali's salary be Rs. x.

Now, according to the question,

$$60\% \text{ of } 45\% \text{ of } x = \text{Rs. } 11475$$

$$\Rightarrow (6/10) \times (9/20) \times x = \text{Rs. } 11475$$

$$\Rightarrow x = \text{Rs. } 42500$$

\therefore Option 4 is the correct answer.

48. Answer: a

Explanation:

Given:

Edge of cube = 7 cm

Concept Used:

Volume of cube = side³

Volume of cylinder = $\pi \times r^2 \times h$

Calculation:

Edge of cube = 7 cm

Volume of cube = side³

$$\Rightarrow 7^3 = 343 \text{ cm}^3$$

When the largest possible right circular cylinder is cut out from a wooden cube then,

Height of cylinder = Edge of cube = 7 cm

Radius of cylinder = Edge of cube/2 = 7/2 cm

Volume of cylinder = $\pi \times r^2 \times h$

$$\Rightarrow 22/7 \times 7/2 \times 7/2 \times 7$$

$$\Rightarrow 11 \times 7 \times 7/2$$

$$\Rightarrow 269.5 \text{ cm}^3$$

Volume of the cube left over after cutting the cylinder = $343 - 269.5 = 73.5 \text{ cm}^3$

\therefore Option 1 is the correct answer.

49. Answer: d

Explanation:

Given

Two equal vessels are filled with a mixture of acid and water in the ratio 2 : 3 and 3 : 4 respectively.

Calculation:

Let the initial quantity of both mixtures be:

$$\text{LCM of } [(2 + 3), (3 + 4)] = 35 \text{ litres}$$

$$\text{So, the amount of acid in the first vessel} = \left(\frac{2}{5}\right) \times 35$$

$$\Rightarrow 14 \text{ litres}$$

$$\text{The amount of water in the first vessel} = \left(\frac{3}{5}\right) \times 35$$

$$\Rightarrow 21 \text{ litres}$$

$$\text{So, the amount of acid in the second vessel} = \left(\frac{3}{7}\right) \times 35$$

$$\Rightarrow 15 \text{ litres}$$

$$\text{The amount of water in the second vessel} = \left(\frac{4}{7}\right) \times 35$$

$$\Rightarrow 20 \text{ litres}$$

When the two mixtures are mixed together,

$$\text{The resulting quantity of acid} = 14 + 15 = 29 \text{ litres}$$

The resulting quantity of water = $21 + 20 = 41$ litres

\therefore The resulting ratio of acid and water is $29 : 41$.

50. Answer: c

Explanation:

Given:

Radius of a circular wheel of a toy car = 56 mm.

Calculation:

Distance covered in one revolution = $2\pi r = 2 \times \left(\frac{22}{7}\right) \times 56 = 352\text{mm}$

Given, total distance covered = 176 cm = 1760 mm

Number of revolutions he makes = $1760/352 = 5$

\therefore Option 3 is the correct answer.

51. Answer: b

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Explanation:

★ Key Points

The correct answer is "**one of the slyest and more**" Here, we will see the correct sentence:

- The mountain lion is **one of the slyest and more** elusive animals in the woods.
- The phrase "**one of the**" is usually followed by the **superlative form of the adjective** and by a plural noun.
- Thus, **most** should be used instead of **more** .

★ Additional Information

Let's see the sentence formation:

- It should be "**one of the most**" instead of "**one of the more**"
- In a general sense, **more** is used when referring to a greater or additional amount or degree. **Most**, on the other hand, is used when referring to greatest in amount or degree.
- The key difference between **more and most** is that while more is considered as a comparative form, most is considered the superlative form.
 - *Eg.* I think you should have brought *more* chairs.
 - *Eg.* That is up to the *most* important companies.

52. Answer: c

Explanation:

The correct answer is "**Psychologist**" Let's see the meaning of the given word:

★ Key Points

- **Psychologist** –a scientist who studies the mind and the way that people behave.
- **Psychologists** seek to understand and explain thoughts, emotions, feelings, and behavior. They use techniques such as observation, assessment, and experimentation to develop theories about the beliefs and feelings that influence individuals.

★ Additional Information

Let's see the correct spellings of the given incorrect words:

- **Envisaige** – It's **Envisage** which means to think of something as being possible in the future; to imagine.
- **Emergense** – It's **Emergence** which means the act of becoming known or coming into view.

- **Trancition** – It's **Transition** which means a change from one state or form to another.
-

53. **Answer: d**

Explanation:

The correct answer is "**Surrender**" Here, let's see the meaning of the given words:

★ Key Points

- **Overrun** – to spread all over an area in great numbers.
- **Surrender** – to stop fighting and admit that you have lost.

★ Additional Information

Let's know what the other given words mean:

- **Inundate** – to give or send somebody so many things that he/she cannot deal with them all.
- **Storm** –very bad weather, with a lot of rain, strong winds, etc.
- **Invade** –to enter a country with an army in order to attack and take control of it.

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54. **Answer: a**

Explanation:

The correct answer is **commensurate** .

★ Key Points

Here, we will learn the meaning of the given word:

- **Commensurate**: corresponding in size, importance, quality, etc.

- **Example:** Her job is commensurate with her qualifications, leadership & interpersonal skills. ·
- The preposition **with** is used with commensurate.

★ Additional Information

Let's see what the other word means:

- **Insignificant:** of little value or importance.
- **Gleeful:** happy, excited, or pleased.
- **Cautious:** taking great care to avoid possible danger or problems.

55. Answer: a

Explanation:

The correct answer is " **righteousness** " .

★ Key Points

Let's learn the meaning of the given word:

- **Righteousness:** the quality of being morally right or justifiable.
 - **Example:** But religious righteousness has been a more potent force than economic despair.

★ Additional Information

Here, we will some other word meanings:

- **Mediation:** the process of talking to two separate people or groups involved in a disagreement to try to help them to agree or find a solution to their problems.
- **Wickedness:** being morally very wrong or bad.
- **Dishonesty:** lack of honesty or integrity.

56. Answer: b

Explanation:

The correct answer is "to be enraged and show it"

★ Key Points

Let's learn the meaning of the given idiom:

- **Foaming at the mouth:** to be extremely angry.
 - *Eg.* The creature was *foaming at the mouth*.

★ Additional Information

Let's learn some other idioms:

- **Foaming up** - To achieve a foamy, sudsy, or frothy consistency.
 - *Eg.* The soap started to *foam up* once I mixed it with water.
-

57. Answer: b

Explanation:

The correct answer is "distract"

★ Key Points

Let's learn the meaning of the correct word:

- **Distract:** to take somebody's attention away from something.
 - *Eg.* We should not *distract* from our goal.
-

58. Answer: a

Explanation:

The correct answer is " **search**"

★ Key Points

Let's learn the given word meanings:

- **Probe:** to ask questions in order to find out secret or hidden information.
- **Search:** to look for something that is missing

★ Additional Information

Let's learn some other word meanings:

- **Motivate:** to cause somebody to act in a particular way.
- **Invite:** to ask somebody to come somewhere or to do something.
- **Push:** to use force to move somebody/something forward or away from you.

59. Answer: b

Explanation:

The correct answer is "**pretty in this**". Here, let's see the correct sentence:

★ Key Points

- You are looking so **pretty in this** black outfit.

★ Additional Information

Let's learn the formation of the sentence:

- We use the word '**in**' when we talk about a situation in which something is enclosed by something else.
 - **Eg.** I don't know what's going on, *in* her mind.

- On the other hand, 'on' is used to talk about a situation when the object is placed above or outside something else.
 - *Eg.*When I was in London, I was working *on* a client Project.

60. Answer: c

Explanation:

The correct answer is " who"

★ Key Points

- Let's see the correct sentence: *He is the patient who called you in the morning.*
- Let's learn the formation:
- **Who** is used as a relative pronoun here.
- **Relative pronouns** refer back to a noun phrase or pronoun that has just been mentioned.
- **Who and whom** are restricted to human subjects or objects.
 - *Eg.*He introduced me to his friend, who had just returned from China.

61. Answer: a

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Explanation:

The correct answer is "we advice them to do"

★ Key Points

Let's see the whole sentence:

- They finally did what we **had advised** them to do before the final match.
- The **past perfect simple** is used to describe **one action that happened before another action in the past** .
- In many cases a complete sentence is written in two parts with two different tenses:

- The past perfect simple, to refer to **the action that happened first or earlier**.
- The past simple to refer to **the action that happened second or later**.
- Thus, the part that contains an error is given in **option 1**.

★ Additional Information

- The main difference between advice vs advise is that **“advise” (with an S)** is a verb, which means to recommend, or to give information to someone. On the other hand, **“advice” (with a C)** is a noun: an opinion or recommendation offered as a guide to action.
- Because **“advice” (/ədˈvɪs/)** and **“advise” (/ədˈvɪz/)** are words that sound alike or similar, they are often confused.

62. Answer: a

Explanation:

The correct answer is "counterfeit"

★ Key Points

Let's see the meaning of the word:

- **Counterfeit:** not genuine, but copied so that it looks like the real thing.

★ Additional Information

Let's see what the other words mean:

- **Staunch:** believing in somebody/something or supporting somebody/something very strongly; loyal.
- **Authentic:** that you know is real or genuine.
- **Deliberate:** done on purpose; planned.

63. Answer: d

Explanation:

The correct answer is "in"

★ Key Points

Here let's see the whole sentence:

- Many people like playing cricket, but **in** my opinion , it is too chaotic.

Let's understand why the given word is used:

★ Additional Information

- In general, **in** is used to indicate location or position within or inside something
 - *Eg.*We went for a swim in the lake.

64. Answer: c

Explanation:

The correct answer is " **Sterile**"Let's see the meaning of the given word:

★ Key Points

- **Impure** -not pure or clean; consisting of more than one substance mixed together.
- **Sterile** -not able to produce young animals or babies.



Additional InformationHere, we will learn a few more word meanings:

- **Contaminated** - to add a substance that will make something dirty or harmful.
- **Segregated** -to separate one group of people or things from the rest.
- **Concentrated** - showing determination.

65. Answer: d

Explanation:

The correct answer is " you will be noticed"

★ Key Points

- Here let's see the sentence: If you plant a seed, **you will notice** that it takes some time to grow.
- Here let's learn the formation:
- **If + Subject + VI, Subject + will + VI.**
- Thus, the use of **will** is more appropriate here.

66. Answer: d

Explanation:

The correct answer is ' **well or successful again.**'

★ Key Points

- The literal meaning of Back on one's feet is standing up again.
- It means gaining or having what you lost.
 - Example - *After the harsh times, Mat is back on his feet once again.*

★ Additional Information

- Here are some similar idioms:

Idioms	Meaning	Sentence
Find your feet	To adapt or to fit in	It's always difficult to find your feet in a new place.
Drag your feet	To delay something	Children always drag their feet when it comes to completing the school-work.
Get cold feet	Experiencing fear	Harris got cold feet when he saw a big furry rat in his room.

67. Answer: d

Explanation:

The correct answer is, 'sails'

★ Key Points

- **Sails** mean to travel by boat .
 - Example - *Leo sails the world with his wife every year.*
- The correct sentence would be, **This cruise ship sails in November and December .**

★ Additional Information

- **Sells** mean to exchange something for money . It's a verb.
 - Examples - *Ted sells the limited edition of signed legos.*
- **Sales** mean an act of selling . It's a noun.
 - Example - *I have some experience in Sales and Marketing.*
- **Seals** mean to shut or to close .
 - Example - *The thief seals the envelope again.*

68. Answer: d

Explanation:

The correct answer is ' **economical** '

★ Key Points

- **Economical** means **budgeted** or **cost-effective** (costing less) .
 - Example - *Buying a car is an economical choice.*
- The correct sentence would be - **If you want to save your money, start living an economical life .**

★ Additional Information

- **Improper** means **something that is unacceptable** or **unsuitable** .
 - Example - *This kind of behavior is improper here.*
- **Extravagant** means **something that is expensive** or **costly** .
 - Example - *All the BMW models are extravagant.*
- **Indulgent** means **easy-going** or **forgiving**.
 - Example - *This teacher is indulgent.*

69. Answer: c

Explanation:

The correct answer is, ' **Undercover** '

★ Key Points

- **Undercover** means **something or someone is private** or **confidential** .
 - Example - *Agent John works undercover.*
- **Clandestine** means **something or someone that is covert** or **secret** .
 - Example - *That kind of information is clandestine.*
- Both **Undercover** and **Clandestine** mean the same as they refer to someone or something that exists but is hidden.

★ Additional Information

- **Blatant** means **something or someone that is transparent or open** . An antonym for Clandestine.
 - Example - *All the crimes of Duke were blatant to the world.*
- **Ornate** means **to decorate** .
 - Example - *The bride prefers ornate jewels.*
- **Open** means **transparent or visible** . An antonym for Clandestine.
 - Example - *All this information is open to the world.*

70. Answer: d

Explanation:

The correct answer is, ' **became popular in** '

★ Key Points

- An event that happened in the past is described using the Past Tense verbs.
 - Example - *Four years ago, my grandfather bought this.*
- The correct sentence would be - **In India, processed foods became popular in the 20th century .**

★ Additional Information

The table below shows where and when we use 's' and 'es' with the verbs in the Simple Present Tense.

	1st Person	2nd Person	3rd Person
Singular	I become	You become	He becomes, she becomes, and it becomes
Plural	We become	You become	They become

71. Answer: d

Explanation:

The correct answer is, 'issued '

★ Key Points

- **Issue** means to deliver or to publish .
 - Example - *This book was issued by the library in-charge.*
- The correct sentence would be, The Ministry of Defence has issued the Formal Government.

★ Additional Information

- **Imbibe** means to drink or to swallow .
 - Example - *The gentleman imbibed the whole drink in one sip.*
- **Accused** means someone who is charged with a crime .
 - Example - *The woman is accused of many crimes.*
- **Extracted** means to take out or to withdraw .
 - Example - *This metal was extracted from the mines in Zimbabwe.*

72. Answer: a

Explanation:

The correct answer is, ' for'



Key Points

- **For** is a preposition used to state a reason about something or someone .
 - Example - *Adam is here for a cup of tea.*
- The correct sentence would be, The Ministry of Defence has issued the formal Government Sanction Letter for grant of permanent commission (PC) to women officers in the Army.

★ Additional Information

- **Since** is used to refer to a period in the past .

- Example – *I have been cooking food for myself since I was 15 years old.*
 - From is used to *state the beginning, or origin of something or someone.*
 - Example – **Seth** is from Chicago .
 - To is used for destination or place .
 - Example – *Lita is going to the restaurant.*
-

73. Answer: d

Explanation:

The correct answer is, 'set'

★ Key Points

- **Set** means a group of something, to select, or to cause something .
 - Example – *I have set a few employees to complete this.*
- The correct sentence would be, In anticipation, the Army Headquarters had set in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers.

★ Additional Information

- **Deposited** means to submit or to unload .
 - Example – *Dean deposited all his things in his bank locker.*
 - **Located** means to place, or to discover someone or something.
 - Example – *I have located three branches of the same factory in Russia.*
 - **Situated** means to build or to locate . A synonym for Located.
 - Example – *It is situated in the other area of the city.*
-

74. Answer: a

Explanation:

The correct answer is, ' soon '

★ Key Points

- **Soon** means something that is about to happen after a short period .
 - Example - *The bus will arrive soon.*
- The correct sentence would be, **The Selection Board will be scheduled as soon as all affected Short Service Commission (SSC) women officers exercise their option.**

★ Additional Information

- **Late** means a delay in something.
 - Example - *Austin will come late to the party.*
- **Long** means a measurement of a great distance or a lengthy period.
 - Example - *Let's go. It will take her a long time to return.*
- **Blind** means a person without eye sight or who can't see.
 - Example - *Some animals are blind only during night-time.*

75. Answer: d

Explanation:

The correct answer is, ' requisite'

★ Key Points

- **Requisite** means required or necessary.
 - Example - *These are the requisite materials for your trip next week.*
- The correct sentence would be, **The Selection Board will be scheduled as soon as affected Short Service Commission (SSC) women officers exercise their option and complete requisite documentation.**

★ Additional Information

- **Unnecessary** means something or something that is not required . An antonym for Requisite.
- **Optional** means a choice .

- **Gratuitous** means **redundant, or something or something that is not required** .
An antonym for Requisite.
-

76. **Answer: c**

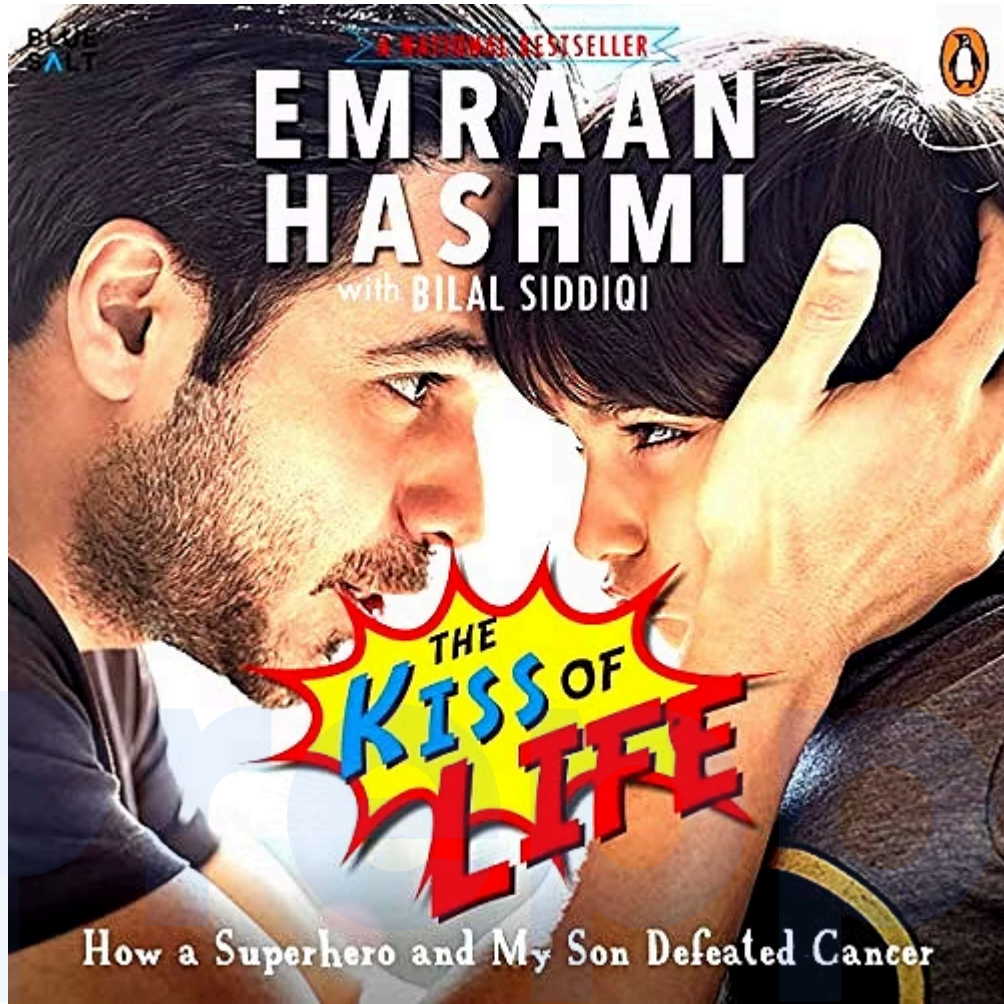
Explanation:

The correct answer is Emraan Hashmi.

★ Key Points

- **The Kiss of Life is a biography** of the famous Bollywood actor **Emraan Hashmi**.
- The book, **co-authored by Hashmi and author Bilal Siddiqi**, chronicles the actor's life, including his rise to fame, **his personal life, and the challenges he faced when his young son was diagnosed with cancer**.
- The **title of the book refers to the emotional moment when Hashmi's son was declared cancer-free and gave his father a kiss**.
- The **book was published in 2016**.

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★ Additional Information

- Sanjay Suri has been a co-author of a book called "In the Shadow of the Divine: One Man's Journey Through the Underworld of Indian Politics" along with his brother Raju Suri.
 - The book is a memoir that explores the brothers' experiences and interactions with various political leaders and parties in India.

77. Answer: a

Explanation:

The correct answer is Assam.

★ Key Points

- **Bhogali Bihu**, also known as **Magh Bihu**, is a festival celebrated in **the state of Assam**.
- The festival marks the end of the **harvest season and is usually observed in January**.
- It is an essential festival for **farmers** who thank the deities for a **good harvest and pray for a bountiful year ahead**.
- The festival involves feasting, **bonfires**, and **traditional dances like the Bihu dance**.

★ Additional Information

- **Assam:**
 - **Bihu**: A harvest festival that is celebrated three times a year, in **January, April, and October, with feasting, dancing, and music**.
 - **Ambubachi Mela**: A four-day festival in **June or July, celebrating the menstruation of the goddess Kamakhya and the renewal of fertility on the earth**.
- **Andhra Pradesh:**
 - **Ugadi**: A New Year festival celebrated in **March or April, with special foods, prayers, and cleaning rituals**.
 - **Bonalu**: A thanksgiving festival held in July or August, honouring the goddess **Mahakali with offerings of rice, jaggery, and coconut**.
- **Rajasthan:**
 - **Pushkar Camel Fair**: A week-long festival in **November, featuring camel races, dances, and a large livestock market**.
 - **Teej**: A monsoon festival held in **July or August, celebrating the union of Lord Shiva and Parvati with fasting, feasting, and swings**.
- **Tamil Nadu:**
 - **Pongal**: A harvest festival held in **January, with offerings of rice and sugarcane to the sun god Surya, and cattle decorated with flowers and bells**.
 - **Tamil New Year**: Celebrated in **mid-April, with traditional foods, house cleaning, new clothes, and the giving of gifts and blessings**.

78. Answer: a

Explanation:

The correct answer is Odisha.

★ Key Points

- It's a martial folk dance where the performer is in battle formation with spears and shields.
- Paika is a form of a long spear and also the word paika signifies battle.
- It is popular in the state of Odisha.



Additional InformationList of folk dances from different states:-

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State	Folk Dance
Andhra Pradesh	Kuchipudi, Vilasini Natyam, Andhra Natyam, Bhamakalpam, Veeranatyam, Dappu, Tappeta Gullu, Lambadi, Dhimsa, Kolattam, Butta Bommalu.
Assam	Bihu, Bichhua, Natpuja, Maharas, Kaligopal, Bagurumba, Naga dance, Khel Gopal, Tabal Chongli, Canoe, Jhumura Hobjanai
Bihar	Jata-Jatin, Bakho-Bakhain, Panwariya, Sama Chakwa, Bidesia.
Gujarat	Garba, Dandiya Ras, Tippani Juriun.
Himachal Pradesh	Jhora, Jhali, Chharhi, Dhaman, Chhapeli, Mahasu, Nati, Dangi.
Chhattisgarh	Gaur Maria, Panthi, Raut Nacha, Pandwani, Vedamati, Kapalik, Bharthari Charit, Chandaini.
Jharkhand	Alkap, Karma Munda, Agni, Jhumar, Janani Jhumar, Mardana Jhumar, Paika, Phagua, Hunta Dance, Mundari Dance, Sarhul, Barao, Jhitka, Danga, Domkach, Ghora Naach.
Manipur	Dol Chalam, Thang-Ta, Lai Haraoba, Pung Cholom, Khamba Thaibi, Nupa Dance, Rasilila, Khubak Ishii, Lou Sha.
Madhya Pradesh	Jawara, Matki, Aada, Khada Nach, Phulpati, Grida Dance, Selalarki, Selabhadoni, Maanch.

79. Answer: d

Explanation:

The correct answer is Shashi Tharoor.

★ Key Points

- Former union minister and Lok Sabha MP Dr. Shashi Tharoor's 23rd book, 'Pride, Prejudice and Punditry, was launched in Hyderabad.
- The book marks the culmination of over 50 years of Dr. Tharoor's writings.
- The book is published by Aleph Book Company.

★ Additional Information

Author	Books
Manish Sisodia	Shiksha: My Experiments as an Education Minister
Pranab Mukherjee	Thoughts and Reflections
Amitav Ghosh	Sea of Poppies

80. Answer: b

Explanation:

The correct answer is Mollusca is the largest animal phylum.

★ Key Points

- Phylum Mollusca
 - Main features:
 - The body is divided into a head and a muscular foot.
 - The mantle is always present in it.
 - The alimentary canal is well developed.
 - Respiration takes place through gills or ctenidia.
 - Blood is colorless.
 - Excretion takes place through the kidneys.
 - Example: Pila, Octopus
- Mollusca is **not** the largest animal phylum.
- The **largest phylum** in the animal kingdom is **Arthropoda**.
- A post-anal tail is present in Chordates.

- Ctenophores are commonly known as sea walnuts.

★ Additional Information

Arthropoda

- Phylum Arthropoda is the largest phylum in the animal kingdom.
- Constituting about 80% of the animal kingdom, Arthropoda is the largest phylum in the animal kingdom.
- Arthropoda is a phylum in the animal kingdom.
- Some important characteristics of this phylum are:
 - Segmented bodies.
 - Joined appendages.
 - Open circulatory system.
- This phylum includes **locusts**, spiders, lobsters, termites, millipedes, insects, crabs, etc.

81. Answer: d

Explanation:

The Correct Answer is Saurashtra .

★ Key Points

- Following a hard-fought final against Bengal at the Saurashtra Cricket Association Stadium in Rajkot, Saurashtra lifted the Ranji Trophy 2019-20 title.
- Though Bengal needed 72 runs and Saurashtra needed four wickets as the battle for the first-innings led to determine that the winner resumed on Day 5 For the first time in 70 years, Saurashtra team won the Ranji Trophy title.
- Based on the lead obtained in the first innings of the final against Bengal, Saurashtra became the champion. Saurashtra was formerly known as Navanagar, Western India, and won the 1936-37 and 1943-44 trophies.
- It was renamed in 1950 as Saurashtra and began to take part in this domestic tournament.

- The Saurashtra team has been runners-up three times in the last seven years. It was the fourth Saurashtra final. On the basis of the first-innings lead against Bengal, Saurashtra achieved the distinction of being the champion.
- As the title was last captured in 1989–90, Bengal could not retain the title again.

★ Additional Information

- India's first-class domestic cricket competition is the Ranji Trophy. The country's provincial and state cricket associations are participating in this tournament.
- The competition is named after the first Indian player from India to compete in international cricket, Ranjit Singhji. In 1934, the first edition of the Ranji Trophy was organised.
- Mumbai has won the Ranji Trophy 41 times, while Vidarbha has won the title twice.

82. Answer: a

Explanation:

The correct answer is Andaman sea.

★ Key Points

- The term "**depression**" is likely referring to a type of weather system known as a tropical cyclone, **which is characterized by low-pressure areas with strong winds and heavy rain.**
- **The Bay of Bengal** is a large body of water located in the northeastern part of the Indian Ocean, **bordered by India, Bangladesh, Myanmar, and other nearby countries.**
- The transfer of a depression condition over the Bay of Bengal can refer to the movement of a tropical cyclone from one location to another within or near the Bay of Bengal.
- This transfer of a **depression condition can have significant impacts on the surrounding areas, including heavy rainfall, strong winds, storm surges, and flooding.**

- It's important to note that tropical cyclones are a natural occurrence and can't be directly linked to cyclical assets that generate revenue.
- **The Bay of Bengal and the Andaman Sea** are both located in the northeastern part of the Indian Ocean, between India and Southeast Asia.
- During the monsoon season, which typically lasts from **June to September**, the region experiences heavy rainfall and strong winds.
- However, sometimes **a depression of winds can occur, which is a weather system characterized by low atmospheric pressure** and winds rotating around a center.
- When a depression forms over the **Bay of Bengal or Andaman Sea**, it can bring **heavy rainfall and strong winds to the surrounding areas**.
- The depression can also lead to the **formation of cyclones or tropical storms**, which can cause damage and disruption to coastal regions.
- The intensity of a depression can vary, with some causing only mild weather disturbances and others causing more severe weather events.
- **The Indian Meteorological Department closely monitors the formation and movement of depressions in the Bay of Bengal and Andaman Sea**, and issues warnings and advisories to help people prepare for any potential impacts.

83. Answer: c

Explanation:

The correct answer is 1976.

★ Key Points

- The Preamble of the Constitution was amended by the 42nd Constitutional Amendment Act.
- The Preamble of the Constitution was amended only once and was in 1976.
- The Forty-second Amendment (42nd) of the constitution is also known as the "Mini Constitution".

★ Additional Information

- This made drastic changes in the constitution:
 - Changed the description of India from a "sovereign democratic republic" to a "sovereign, socialist secular democratic republic".
 - Changed the words "unity of the nation" to "unity and integrity of the nation".
 - Added a list of ten fundamental duties by adding Part IV-A.
 - Added part XIV-A.
 - Increased the tenure of Lok Sabha and state legislative assemblies from 5 years to 6, but it was cancelled by the 44th amendment act
 - Made the President bound by the advice of the cabinet.
- The amendment was passed during the Indira Gandhi government.
 - Indira Gandhi constituted Swaran Singh Committee to study amending the constitution in 1976.
 - Recommendations of the Swaran Singh committee made several changes to the Constitution including the Preamble, through the Forty-second Amendment of the Constitution of India.

84. Answer: d

Explanation:

The correct answer is First sermon.

★ Key Points

- The Lion Capital was originally a part of the pillar constructed by Ashoka, the great emperor of the Mauryan dynasty who created the largest empire of ancient India.
- The Lion Capital discovered more than a hundred years ago at Sarnath, near Varanasi, is generally referred to as Sarnath Lion Capital.
- It is one of the finest examples of sculpture from the Mauryan period and was built by Ashoka in commemoration of 'Dhammachakrapravartana' or the first sermon of Buddha.
- The capital has four Asiatic lions seated back to back and their facial muscularity is very strong.

- Abacus (drum on the bell base) has the depiction of a chakra (wheel) in all four directions and a bull, a horse, an elephant, and a lion between every chakra.
- Each chakra has 24 spokes in it.
- The capital was adopted as the National Emblem of India after independence without the crowning wheel and the lotus base.

85. Answer: d

Explanation:

The correct answer is Ganga.

★ Key Points

- Bhagirathi river
 - The Bhagirathi is a turbulent Himalayan river in the Indian state of Uttarakhand, and one of the two headstreams of the Ganges, the major river of Northern India, and the holy river of Hinduism.
 - In the Hindu faith, mythology, and culture, the Bhagirathi is considered the source stream of the Ganges as in ancient times, Bhagirathi may have had the stronger stream of the two.
 - However, in recent times, the other headstream, Alaknanda, is considered the source stream on account of its length and discharge.
 - The Bhagirathi and Alaknanda join at Devprayag in Garhwal and are thereafter known as the Ganges.
 - The word "Bhagirathi" (Sanskrit, literally, "caused by Bhagiratha") refers to a mythological Sagar Dynasty prince who, to gain the release of his 10,000 great-uncles from the curse of saint Kapila, brought the goddess Ganga in the form of the river Ganges, from the heavens to the earth.

★ Additional Information

- The Brahmaputra
 - The Brahmaputra originates from the Chemayundung glacier near Manasarover lake in Tibet.

- In Bangladesh, Brahmaputra is known by the name Jamuna.
- The Yarlung Tsangpo is the Tibetan name for the upper course of Brahmaputra.
- In Arunachal Pradesh, Brahmaputra is known by the name Dihang.
- Most of its course lies outside India.
- It flows through countries such as India, China, and Bangladesh.
- The Brahmaputra is also called the "Red River".
- The major tributaries of the Brahmaputra river are Tista, Lohit, Subansiri etc.
- The Brahmaputra is the Indian river that occupies the maximum volume of water.
- The river Ganga is known as the Padma in Bangladesh.
- Yamuna River
 - Yamuna River, also called Jumna, major river of northern India, primarily in the Haryana, Uttarakhand, and Uttar Pradesh states. It is one of the country's most sacred rivers.
 - The Yamuna rises on the slopes of the Bandarpunch massif in the Great Himalayas near Yamnotri (Jamnotri) in western Uttarakhand.
 - It travels a total length of 1,376 kilometers (855 mi) and has a drainage system of 366,223 square kilometers (141,399 sq mi), 40.2% of the entire Ganga Basin.
- Indus River:
 - River originates at Lake Mansarovar in Tibet (China).
 - It drains Tibet (China), India and Pakistan.
 - At last, the river falls into the Arabian Sea near Karachi (Pakistan).
 - Length of Indus is 3,180 km.
 - Rigvedic name of Indus is Sindhu.
 - Tributaries:
 - Left Bank: Zaskar, Jhelum, Chenab, Ravi, Beas and Sutlej.
 - Right bank: Shyok, Gilgit, Hunza, Kabul, Swat, Kurram.

86. Answer: b

Explanation:

The correct answer is Konkan Railway.

★ Key Points

- Konkan Railway has accomplished 100% Rail electrification of its entire stretch on 30 March 2022.
- The foundation stone for the Electrification of the entire 741 km route work was laid in November 2015.
- The government of India is working on a project 'Mission 100% Electrification - Moving towards net Zero Carbon Emission' to make railways 100% Electrified.

★ Additional Information

- The Konkan Railway सादर सेवा (abbreviated KR) is a railway operated by the Konkan Railway Corporation.
- It is headquartered at CBD Belapur in Navi Mumbai, Maharashtra, India.
- The first passenger train ran on Konkan railway tracks on 20 March 1993, between Udupi and Mangalore.

87. Answer: c

Explanation:

The correct answer is Raja Ram Mohan Roy.

★ Key Points

- In 1815, Raja Rammohan Roy established the Atmiya Sabha, a precursor in the socio-religious reforms in Bengal.
- The members used to conduct debate and discussion sessions on philosophical topics and also used to promote free and collective thinking and social reform.
- The foundation of Atmiya Sabha in 1815 is considered as the beginning of the modern age in Kolkata.

★ Additional Information

- Raja Rammohan Roy is known as “Father of Modern India”; “Father of Indian Renaissance” and “bridge between past and future”.
- In 1817, he founded Mahapathshala (Hindu College) at Kolkata along with Radhakanta Deb and others.
- In 1821, he launched a Bengali weekly newspaper Sambad Kaumudi. Sambad Kaumudi was the first Indian newspaper edited, published, and managed by Indians.
- In 1822, he published a Persian news magazine titled Mirat-ul-Akbar.
- In 1828, he launched Brahma Sabha with Devendranath Tagore.

88. Answer: b

Explanation:

The correct answer is Kuchipudi.

★ Key Points

- Aparna Satheesan
 - Aparna Satheesan is a Kuchipudi and Bharatanatyam dancer, choreographer and teacher.
 - She is well known globally for her ability to use creativity in presenting innovative ideas through multiple classical dance forms of India.
 - She was awarded the Abhinandan Saroja award for her contribution to classical dance in November 2021.
 - The selection panel of judges included very famous dancers like Dr Swati Daithankar, Sri. Narendra Kumar, Smt. Sukanya Mahadevan and Smt. Aparna Ramesh.

★ Additional Information

- Some famous classical dancers

Bharathanatyam	Rukmini Devi Arundale, Tanjore Balasaraswati
Kuchipudi	Vempati China Satyam, Yamini Krishnamurthy
Mohiniyattam	Kalamandalam Kalyanikutty Amma, Mrinalini Sarabhai
Kathak	Pandit Birju Maharaj, Shovana Narayan, Lachu Maharaj
Manipuri	Guru Bipin Singh
Odissi	Kelucharan Mohapatra

89. Answer: a

Explanation:

The correct answer is Option 1.

★ Key Points

- Closure Motion It is a motion moved by a member to cut short the debate on a matter before the House. If the motion is approved by the House the debate is stopped forthwith and the matter of discussion is put to vote.
- There are four kinds of closure motions:
 - Simple Closure: The matter which has been discussed enough and can be put to vote.
 - Closure by Compartments: The clauses of a bill or a lengthy resolution are grouped into parts before the commencement of the debate. The debate covers the part as a whole and thus the entire part is put to vote.
 - Kangaroo Closure: only important clauses are taken up for debate and voting and the intervening clauses are skipped over and only then the matter is taken as passed.
 - Guillotine Closure: It is one when the undiscussed clauses of a bill or a resolution are also put to vote along with the discussed ones due to wanting of time.

★ Additional Information

- **Privilege Motion** – It is concerned with the breach of parliamentary privileges by a minister. It is moved by a member when he feels that a minister has committed a breach of privilege of the House or one or more of its members by withholding facts of a case or by giving wrong or distorted facts. Its purpose is to censure the concerned minister.
- **No-Confidence Motion** – According to article 75 of the Constitution, the council of ministers shall be collectively responsible to the Lok Sabha and it means that the ministry stays in the office as long as it enjoys the confidence of the majority of the members of the Lok Sabha. In other words, the Lok Sabha can remove the ministry from office by passing a no-confidence motion. The motion needs the support of 50 members to be admitted.

90. Answer: b

Explanation:

The correct answer is Option 2.

★ Key Points

- The Battle of Khanwa was fought in the year 1527.
- It was fought between the Mughal Emperor **Babur** and the Rajput King **Rana Sanga** of **Mewar**.
- Babur defeated Rana Sanga in the battle of Khanwa.
- It was fought in the village of **Khanwa** near **Bharatpur, Rajasthan**.
- The First **Battle of Panipat** was fought in **1526** between **Babur** and **Ibrahim Lodi**.

★ Additional Information

- Babur was the founder of the Mughal empire in the Indian subcontinent.
 - He ruled the Mughal dynasty from 1526 to 1530.
 - Babur came to India from Ferghana.
 - Babur succeeded to the throne of Ferghana in 1494 when he was only 12 years old.
 - He was forced to leave his ancestral throne due to the invasion of the Uzbeks (Mongol group).

- He was a descendant of Timur from his father's side and a descendant of Chengiz Khan from his mother's side.
- He defeated Ibrahim Lodi at Panipat and captured Delhi and Agra in 1526.
- He defeated Rana Sanga of Mewar at Khanwa in 1527
- He defeated the Rajputs at Chanderi in 1528.
- Tuzuk-i-Baburi is the autobiography of Babur.
- He died at Agra in 1530.
- Ibrahim Lodhi (1517 AD-1526 AD):
 - He was the last king of the Lodhi dynasty and the last sultan of Delhi.
 - He was the son of Sikandar Lodhi.
 - Daulat Khan Lodhi, the Governor of Punjab, invited Babur to overthrow Ibrahim.
 - He captured Gwalior and was defeated by Rana Sanga of Mewar.
 - He was defeated and killed at the hands of Babur in the First Battle of Panipat in 1526 AD.
- Rana Sanga -
 - He ruled between **1509 and 1527**. A scion of the Sisodia clan of Suryavanshi Rajputs, Rana Sanga succeeded his father, **Rana Raimal**, as king of **Mewar** in **1509**.
 - He fought against the **Mughals in the Battle of Khanwa**, which ended with the Mughal victory, and died shortly thereafter on **March 17, 1527**.
- Sher Shah Suri:
 - Sikandar Shah Suri was the 6th ruler of the Suri Empire.
 - He was a Pathan from Bihar who defeated the Mughal emperor Humayun (1530-1540, 1555-1556) and founded the Suri Empire in Northern India.
 - He ruled from 1540-1545.
 - The tomb was built in memory of Emperor Sher Shah Suri.
 - The tomb of Sher Shah Suri is in the Sasaram town, state of Bihar.
 - The "Battle of Chausa" was fought between the Mughal emperor, Humayun, and the Afghan emperor Sher Shah Suri.
 - It was fought on 26 June 1539 at Chausa, located in the southwest of Buxar, now in Bihar.
 - In this battle, Sher Shah defeated Humayun and crowned himself as Farid al-Din Sher Shah.

- The Mughal emperor Humayan again faced Sher Shah in the Battle of Kanaujand was again defeated by him.

91. Answer: b

Explanation:

The correct answer is Rigveda.

★ Key Points

- Vedas
 - The Vedas are the earliest surviving literature of the Indian subcontinent.
 - There are four Vedas: the Rig Veda, the Sama Veda, the Yajur Veda, and the Atharva Veda.
 - Of these, the Rig Veda is the oldest and was composed about 3500 years ago.
 - All the other Vedas are based upon it and consist to a large degree of various hymns from it.
 - It consists of a thousand such hymns of different seers, each hymn averaging around ten verses.
 - The Rig Veda is also the oldest book in Sanskrit or any Indo-European language.

★ Additional Information

- Rigveda:
 - The oldest Veda is the Rigveda. It has 1028 hymns called 'Suktas' and is a collection of 10 books called 'Mandalas.'
 - It is the oldest form of Veda and the oldest known Vedic Sanskrit text(1800 – 1100 BCE)
 - The meaning of the word 'Rigveda' is Praise Knowledge
 - It has 10600 verses
 - The meters used to form hymns are Gayatri, Anushtubh, Trishtubh, and Jagati (Trishtubh and Gayatri are most important)
- Samaveda:

- Known as the Veda of melodies and chants, Samaveda dates back to 1200–800 BCE. This Veda is related to public worship.
- There are 1549 verses (except 75 verses, all have been taken from Rigveda)
- There are two Upanishads embedded in Samaveda – Chandogya Upanishad and Kena Upanishad
- The Samaveda is considered the root of Indian classical music and dance
- It is considered as the storehouse of the melodious chants
- Yajurveda:
 - Stands to mean 'Worship Knowledge', Yajurveda dates back to 1100–800 BCE; corresponding with Samaveda. It compiles ritual-offering mantras/chants. These chants were offered by the priest alongside a person who used to perform a ritual (in most cases yajna fire.)
 - It has two types – Krishna (Black/Dark) & Shukla (White/Bright)
 - Krishna Yajurveda has an un-arranged, unclear, motley collection of verses
 - Shukla Yajurveda has arranged and clear verses
- Atharvaveda:
 - Stands to mean a tatpurusha compound of Atharvan, an ancient sage, and knowledge (atharvan+knowledge), it dates back to 1000–800 BCE.
 - The daily procedures of life are very well enumerated in this Veda
 - It has 730 hymns/suktas, 6000 mantras, and 20 books
 - Paippalada and the Saunakiya are two surviving recensions of Atharvaveda
 - Called a Veda of magical formulas, it includes three primary Upanishads – Mundaka Upanishad, the Mandukya Upanishad, and the Prashna Upanishad.

92. Answer: d

Explanation:

The correct answer is Only II.

★ Key Points

- **Deforestation actually contributes** to an increase in the amount of **carbon dioxide (CO₂)** in the atmosphere, rather than reducing it.
- Trees and other plants absorb carbon dioxide during **photosynthesis**, which is the process by which they convert sunlight into energy.
- When forests are cleared or burned, the **carbon stored in the trees is released into the atmosphere in the form of CO₂**.
- **Deforestation** is estimated to be responsible for around 10% of global greenhouse gas emissions.
- Therefore, deforestation is actually one of the main contributors to climate change, as the increased levels of **CO₂ in the atmosphere trap heat and lead to global warming**.
- In contrast, protecting and expanding forests is one of the most effective ways to mitigate climate change, as they act as natural carbon sinks by absorbing and storing large amounts of carbon from the atmosphere. *Hence statement I is incorrect.*
- Carbon dioxide (CO₂) can be **"fixed" through various processes**, such as **photosynthesis** in plants or carbon sequestration in geological formations.
- When **CO₂ is fixed through photosynthesis**, it is converted into organic compounds like sugars and starches, **which are then stored in plant tissues and not released back into the air**.
- **Carbon sequestration involves capturing CO₂ emissions** from industrial sources and storing them in underground geological formations, **where they are effectively removed from the atmosphere**.
- **Once CO₂ is fixed through these processes**, it does not diffuse into the air as it would if it remained in its gaseous form.
- Fixing carbon dioxide is important for mitigating the impacts of climate change by reducing the amount of greenhouse gases in the atmosphere. *Hence statement II is correct.*

93. Answer: c

Explanation:

The correct answer is Warren Hastings.

★ Key Points

- The first governor-general in India (of Bengal) was Warren Hastings in 1773.
- He started his career as a writer (clerk) in the East India Company at Calcutta in 1750.
- Established revenue board in 1772.
- He Abolished the dual system of governance.
- He founded the Asiatic Society of Bengal with William Jones in 1784 in Calcutta.
- Warren Hastings laid the foundation of civil service and Lord Cornwallis reformed, modernized, and rationalized it.

★ Confusion Points

- William Bentinck:
 - Lord William Bentinck was the last Governor-General of Bengal and the first Governor-General of India.
 - **The Charter Act of 1833** made the Governor-General of Bengal the Governor-General of India.
 - Lord William Bentinck is credited for the abolition of the system of 'Sati'.
 - The Governor-General of India laid the foundation for Calcutta Medical College. It was established in the year 1835.
 - It was the first medical college in Asia.
 - In 1835 Sir Charles Metcalfe succeeded Lord William Bentinck.

★ Additional Information

- Robert Clive:
 - Major-General Robert Clive was the first British Governor of the Bengal Presidency.
 - Clive began as a writer for the East India Company (EIC) which established the military and political supremacy of the EIC by securing a decisive victory at the Battle of Plassey(1757) in Bengal.
 - Robert Clive was the Governor of Bengal from 1757-60 and from 1765-67.
 - Robert Clive started a 'Society of Trade' in 1765 but it was later abolished.
 - Robert Clive Introduce Dual System where the company was the Diwan and the Nawab held the Nizamat.
- Thomas Munro:

- Major general Sir Thomas Munro was a Scottish soldier who was appointed the governor of Madras in 1820.
 - He served till his death from cholera in 1827.
 - He also served as an army officer in the East India Company.
 - **Charles Cornwallis:**
 - Charles Cornwallis was the governor-general of Bengal when the permanent settlement was introduced in **1793**.
 - In this system, the zamindars became the owners of the land and were required to pay a fixed amount to Britishers as tax every month.
-

94. Answer: b

Explanation:

The correct answer is Electricity.

★ Key Points

- **Electricity is one of the Infrastructural factors for agriculture.**
 - The following factors are institutional factors for agriculture:
 1. **Physical factors:** Terrain, topography, climate, and soil.
 2. **Institutional Factors: Land tenure,** land tenancy, size of the landholdings, size of fields, and land reforms.
 3. **Infrastructural factors:** Irrigation, **electricity**, roads, credit and marketing, storage, facilities, crop insurance, and research.
 4. **Technological Factors:** High-yielding varieties (new seeds) introduced in Green Revolution, chemical fertilizers, insecticides, pesticides, and farm machinery.
-

95. Answer: a

Explanation:

The correct answer is Sikkim.

★ Key Points

- Sikkim
 - As per the state census 2011, Sikkim is the least populous state of India.
 - The population of the state was 6.71 lakhs.

★ Additional Information

- According to Census 2011:
 - C M Chandramauli was the Registrar General and Census Commissioner of India for the 2011 Indian Census.
 - Uttar Pradesh is the most populous state.
 - Maharashtra is the second most populous state in India.
 - The sex ratio in the country was is 940 females per 1000 males.
 - Haryana has the lowest sex ratio with just 877 women per 1000 males.
 - Bihar has the highest population density.
 - The overall literacy rate in India is 74% according to the 2011 census.
 - Bihar is the least literate state in India, with a literacy of 63.82%.
 - Goa was the most urbanized state with 62.17% of the population living in urban areas.

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96. Answer: c

Explanation:

The correct answer is Saranggi.

★ Key Points

- The sarangi is a bowed instrument that was made popular by Indian artist Pandit Ram Narayan as a solo performance instrument in Hindustani classical music.
- He also became the first sarangi performer to achieve fame on a global scale.

- The sarangi is played with a bow just like a violin, but in contrast to the violin, it is held vertically with the sound chamber below.
- It normally has three primary strings, with a fourth string serving as a drone occasionally.
- A solo concerto is a type of music in which an orchestra plays behind a single solo instrument that plays the melodic line.
- A solo concerto has three movements: a quick section, a slow section, and then another fast section.

★ Additional Information

Instrument	Famous instrumentalist of India
Flute Musicians	Hariprasad Chaurasia
Santoor Musicians	Pt. Shiv Kumar Sharma
Tabla	Ustad Zakir Hussain
Sarod Musicians	Amjad Ali Khan
Shehnai Musicians	Bismillah Khan
Sitar Musicians	Pandit Ravi Shankar
Saranggi Musicians	Pt. Ram Narayan
Rudra Veena	Ustad Asad Ali Khan
Mridangam	Ramnad V. Raghavan
Ghatam	T. H. Vinayakram

97. Answer: a

Explanation:

The correct answer is Milk.

★ Key Points

- Milk is an emulsion or colloid of butterfat globules within a water-based fluid that contains dissolved carbohydrates and protein aggregates with minerals.
- An emulsion is a mixture of two or more liquids that are normally immiscible (unmixable or unblendable) owing to liquid-liquid phase separation.
- Common examples of emulsions include egg yolk, butter, and mayonnaise.

★ Additional Information

Term	Description
Suspension	<p>A suspension is a heterogeneous mixture of a fluid that contains solid particles sufficiently large for sedimentation.</p> <p>Examples- Muddy water, Milk of magnesia, Sand particles suspended in water, Flour in water, Slaked lime for whitewashing, etc.</p>
Gel	<p>A gel is a colloidal system in which the dispersed phase is liquid and the dispersion medium is solid.</p> <p>Examples - Curd, cheese, butter, etc.</p>
Foam	<p>A foam is a dispersion of a gas in a liquid prepared using a foaming agent, which in most cases consists of one or more surfactants.</p> <p>Examples - whipped cream, fire retardant foam, and soap bubbles, etc.</p>

98. Answer: b

Explanation:

The correct answer is Field hockey.

★ Key Points

- India Medal Tally Tokyo Olympics - 1 Gold, 2 Silver, 4 Bronze Medal. (Total- 7 Medal)
- India made a big comeback to beat Germany 5-4 and claim the bronze medal. It is their third Olympic bronze medal - after the 1968 and 1972 Games - and their 12th Olympic medal overall. It is India's fifth medal at Tokyo 2020.
- At Tokyo Olympics, India surpassed its previous best haul of six medals achieved in the 2012 London Games. Apart from Chopra's gold, India has won two silver and four bronze medals.

★ Important Points

Tokyo Olympics 2020 India Medals List

Athlete	Achievements
Neeraj Chopra	Gold medal in Men's Javelin throw
Mirabai Chanu	Silver medal in women's 49kg weightlifting
Ravi Kumar Dahiya	Silver medal in men's 57kg freestyle wrestling
PV Sindhu	Bronze medal in women's singles badminton
Lovlina Borgohain	Bronze medal in women's welterweight boxing
Bajrang Punia	Bronze medal in men's 65kg freestyle wrestling
Men's Hockey team	Bronze medal

★ Additional Information

- The 2020 Summer Olympics, officially the Games of the XXXII Olympiad and also known as Tokyo 2020, was an international multi-sport event held from 23 July to 8 August 2021 in Tokyo, Japan, with some preliminary events that began on 21 July.
- Future Olympic locations as per 2022:
 - Paris, France, from 26 July to 11 August 2024,
 - Milan and Cortina d'Ampezzo, in Italy, in 2026.

99. Answer: a

Explanation:

The correct answer is PV Sindhu.

★ Key Points

- **PV Sindhu** won the women's singles title at the Swiss Open Super 300 badminton tournament 2022.
- At the Swiss Open Super 300 badminton competition in this city, veteran Indian shuttler P V Sindhu won the women's singles championship with a straight-game victory over Thailand's Busanan Ongbamrungphan.
- At the St. Jakobshalle in this city, double Olympic medalist Sindhu defeated fourth-seeded Busanan 21-16 21-8 in 49 minutes to go to her second consecutive championship final.
- After losing to Carolina Marin of Spain, who won the gold medal in the Rio Olympics, in the previous edition's final, Sindhu finally took the trophy, and it was a proud occasion for her.
- The Hyderabad athlete, 26, has fond recollections of this location because it was where she won the gold at the 2019 World Championships.

★ Additional Information

- Tasnim Mir became the first Indian to grab World no 1 in Under-19 (U-19) Girls Singles category in the 2022 Badminton World Federation (BWF) Junior rankings.

- Nitesh Kumar won doubled gold at the 4th Para-Badminton National Championship, which concluded in Bhubaneswar, Odisha.
- Kidambi Srikanth has become the first Indian man to win a silver medal at BWF World Championships.
- Badminton World Federation:
 - Founded: 5 July 1934;
 - Headquarters: Kuala Lumpur, Malaysia;
 - President: Poul-Erik Høyer Larsen (As of March 2023).
- Ace Indian badminton player PV Sindhu defeated China's He Bingjiao to win the bronze medal in the women's singles event at the Tokyo Olympics 2020.

100. Answer: c

Explanation:

The correct answer is Delhi.

★ Key Points

- As of the census 2011, Mumbai was the most populated metro city in India with a population of over 18 million people.
- Delhi was the second most populated metro city with a population of over 16 million people, followed by Kolkata with a population of over 14 million people.

★ Additional Information

- India has 8 metro cities: Delhi, Mumbai, Kolkata, Chennai, Bengaluru, Hyderabad, Ahmedabad and Pune.
- These cities are considered to be the most developed and populous cities in India, with high levels of economic growth and urbanization.
- Delhi is the capital city of India, and Mumbai is known as the financial capital of India.
- Kolkata was the capital of British India until 1911 and has a rich cultural heritage.
- Chennai is known as the "Detroit of India" due to its automobile industry.

- **Bengaluru** is considered the "**Silicon Valley of India**" due to its booming IT sector.
- **Hyderabad** is famous for its rich history and the iconic **Charminar monument**.
- **Ahmedabad** is known for its textile industry and as the **birthplace of Mahatma Gandhi**.
- **Pune** is a hub for education and research, and is known as the "**Oxford of the East**".
- All these cities have modern infrastructure, including metro rail systems, airports, and world-class educational institutions.

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