



TEST FORM NUMBER

Maximum Marks : 450

Total Questions : 150

Time Allowed : 135 Min.

**INSTRUCTIONS TO CANDIDATE****Read the following instructions carefully before you begin to attempt the questions.**

- (1) This booklet contains **150 Questions** in all **three sections** having **two modules** each:

Section-I : 60 minutes	Section-II : 60 minutes	Section-III : 15 minutes
Module-I: Reasoning and General Intelligence. <b>(30 Questions)</b>	Module-I: English Language and Comprehension <b>(45 Questions)</b>	Module-I: Computer Knowledge Test <b>(20 Questions)</b>
Module-II: Mathematical Abilities <b>(30 Questions)</b>	Module-II: General Awareness <b>(25 Questions)</b>	

- (2) **All the questions are compulsory and carry equal marks. It will be mandatory for the candidates to qualify all the sections of Paper-I.**
- (3) Before you start to attempt the questions, you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.
- (4) **Each question carries negative marking also as 1/3 mark will be deducted for each wrong answer.**
- (5) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **pencil or Black/Blue ball pen** only.
- (6) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- (7) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- (8) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.
- (9) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- (10) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
- (11) No rough work is to be done on the Answer-Sheet.
- (12) No candidate can leave the examination hall before completion of the exam.

NAME OF CANDIDATE:.....

DATE :..... CENTRE CODE :.....

ROLL No .....

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO**

## Section-I : 60 minutes

## Reasoning and General Intelligence

- Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.  
(A) 28: 364 (B) 34: 442  
(C) 19: 247 (D) 23: 322
- "Dehradun" is related to "Uttarakhand" in the same way \_\_\_\_ is related to "Himachal Pradesh".  
(A) Shimla (B) Dharamshala  
(C) Gairsain (D) Mandi
- Select the option that is related to the fourth and the sixth term in the same way as the first and the third term are related to the second term.  
XAD: GJM: PSV :: QTW: ? : ILO  
(A) ZCF (B) KJI  
(C) ZGH (D) ZBD
- Select the wrong term in the series.  
18, 26, 30, 57, 68, 130, 146  
(A) 57 (B) 30  
(C) 68 (D) 130
- Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.  
\_ l \_ n n \_ k \_ l m \_ \_ \_ l l \_ \_ n o k l \_ \_ n \_ \_  
(A) l k m o l n m o k l n m l n o  
(B) k l o m l n n o k m l n m n o  
(C) k l m l o n o n k n m m l n o  
(D) k l m o l n n o k m n l m n o
- Six boxes are kept one above the other, such that the box which is at the bottommost position is numbered as 1, the box above it is numbered as 2 and so on. The boxes are of different color among- Red, Green, Yellow, Blue, Orange and Black, however not in this particular order. Third box is Red. Yellow box is kept two boxes above Green box. Blue box is adjacent to Yellow box. Black box is a prime numbered box. How many boxes are there between Orange and Blue box?  
(A) One (B) Three  
(C) Two (D) Four
- If it was Sunday on March 19, 2017, then what will be the day of the week on March 19, 2027?  
(A) Sunday (B) Friday  
(C) Monday (D) Tuesday
- Read the given statements and conclusion carefully. Assuming the information given in the statement 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.  
**Statements:** Some Hit are Fast  
No Slow is Fast  
A few Fast are Quick  
All Quick are Miss  
**Conclusion:** I. A few Miss are Fast  
II. A few Hit are not Slow  
III. A few Quick are not Slow  
(A) Only conclusions I and II follow  
(B) Only conclusions I and III follow  
(C) Only conclusions II and III follow  
(D) All the conclusions follow
- In a certain code language, 'PENGUIN' is coded as 'UVSLFRS' and 'FATHER' is coded as 'KZYMVW'. How will 'EMPEROR' be coded, in that language?  
(A) VRUVXNX (B) VRPVZLZ  
(C) VRUVWLW (D) XCUVALA
- In a certain code language, 'one eight nine four' is coded as 'da, kw, st, qh', 'four two nine' is coded as 'zw, kw, da' and 'nine one six' is coded as 'st, da, lv'. How will 'six two eight' be coded in the same language?  
(A) zw, da, kw (B) lv, zw, qh  
(C) kw, st, da (D) lv, zw, st
- A series is given with one term missing. Choose the correct alternatives from the given ones that will complete the series.  
16, 16, 24, 60, 240, 1440, \_\_\_\_  
(A) 11520 (B) 12240  
(C) 10800 (D) 12960
- How many letter-pairs are there in the word 'ADJUSTMENT' which has as many letter in both the forward direction and the backward direction, as there between them as per English alphabetical order?  
(A) One (B) Two  
(C) Three (D) Four
- What will come in place of question mark?  

23	17	26
853	458	?
18	13	14

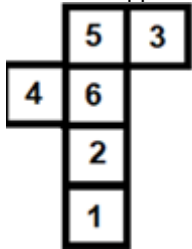
  
(A) 678 (B) 568  
(C) 872 (D) 789
- In a certain code language, 'CREATE' is coded as '9 24 11 7 26 11' and 'SMILE' is coded as '24 18 14 17 10'. How will 'DONKEY' be coded, in that language?  
(A) 10 21 20 19 11 17 (B) 14 15 17 19 23 26  
(C) 10 21 20 17 11 31 (D) 14 15 17 23 25 27
- If 'A' represents 'Multiplication', 'B' represents 'Addition', 'C' represents 'Division' and 'D' represents 'Subtraction', then find the value of the following expression.  
Expression: 123 B 154 C 7 D 12 A 8  
(A) 54 (B) 49  
(C) 68 (D) 52
- If '@' represents 'addition', '%' means 'subtraction', '#' means 'division', and '&' means 'multiplication', then what is the value of the following expression:  
[{(312 # 13) @ 19} & 3] % {(2 & 78) % 46}  
(A) 29 (B) 19  
(C) 27 (D) 17
- Which of the following words can be formed using the letters of the word only once?  
**VACCINOLOGIST**  
**Word I:** VOCALISING  
**Word II:** NOSTALGIC  
**Word III:** CONVICTS  
(A) Only word I can be formed using the letters only once  
(B) Only word I and II can be formed using the letters only once  
(C) Only words I and III can be formed using the letters only once  
(D) All the words can be formed using the letters only once.

18. The mirror image of a clock shows a time of 12:18hrs. What is the time shown in the clock? Also, calculate the angle between the minute hand and the hour hand, when taken in clockwise direction from the minute hand, at the time shown in the clock.  
 (A) 1:42hrs,  $99^\circ$  (B) 10:42hrs,  $135^\circ$   
 (C) 11:42hrs,  $99^\circ$  (D) 11:42hrs,  $132.5^\circ$

19. There are six members, L, M, N, O, P and U in a family of three generations. U is the father of P. O, who is married to N, is the only son of U. Q is the nephew of P. L, who is not mother of N, is the grandmother of Q. How is P related to L?  
 (A) Grandson (B) Daughter  
 (C) Nephew (D) Mother

20. If 'A + B (10m)' means 'A is 10m west of B', 'A × B (10m)' means 'A is 10m east of B', 'A ÷ B (10m)' means 'A is 10m south of B', 'A - B (10m)' means 'A is 10m north of B'.  
 P - T (17m), V × T (15m), V ÷ Q (17m), Q + U (14m), R - U (8m), S + R (14m), X - S (15m), X × W (15m)  
 What is the shortest distance between S and P?  
 (A) 13m (B) 19m  
 (C) 15m (D) 17m

21. A cube is made by folding the given sheet, in the cube so formed, which of the following pairs of letters will be on opposite sides?



- (A) 4, 2 (B) 6, 3  
 (C) 2, 5 (D) 3, 1

22. In the question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by 2 classes of alphabet as given in two matrices below. The column and rows of matrix-I are numbered from 0-3 and that of matrix II are numbered from 4-7. A letter from this matrix can be represented 1<sup>st</sup> by its row and next by its column. For example 'X' can be represented by '31', '54', '77' etc. Similarly, you have to identify the set of word 'GOLDEN'.

Matrix I:

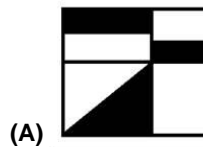
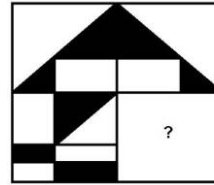
	0	1	2	3
0	G	Q	E	K
1	A	S	J	L
2	C	X	O	W
3	D	Z	J	N

Matrix II:

	4	5	6	7
4	L	S	E	Z
5	Z	B	G	Q
6	D	V	M	X
7	X	O	N	Z

- (A) 00, 75, 13, 02, 30, 76 (B) 56, 13, 44, 02, 76, 75  
 (C) 00, 22, 13, 30, 23, 12 (D) 56, 22, 44, 30, 46, 76

23. Which answer figure will complete the pattern in the question figure?



(A)



(B)



(C)



(D)

24. Identify the correct mirror image of the given combination, when the mirror is placed to the right of the figure given below.

M N ! @ 2 3 # 4 &amp; n m

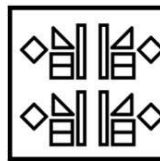
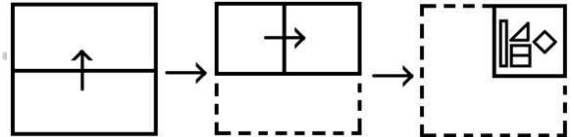
(A) m n &amp; # 4 3 2 @ ! N M

(B) m n &amp; # 4 3 2 @ ! N M

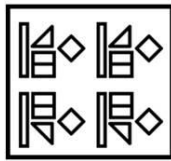
(C) m n &amp; # 4 3 2 @ ! N M

(D) m n &amp; # 4 3 2 @ ! N M

25. A piece of paper is folded and cut as shown below in the question figure. How will it appear when unfolded?



(A)



(B)



(C)



(D)

26. Seven people, Anu, Bill, Neha, Gina, Hank, Pam and Dan, stand along a linear row such that all face in the north direction. Pam sits third to the right of Neha. Anu sits adjacent to Gina. No person sits to the right of Gina. Bill sits second to the left of Dan. Bill does not sit at the extreme end seat. How many person/ persons sit to the right of Hank?  
 (A) Three (B) Four  
 (C) Five (D) Six

27. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.  
 1- CURBSIDE 2- CURATIVES  
 3- CURRENTS 4- CURRENCY  
 5- CURRICLES  
 (A) 2, 1, 5, 4, 3 (B) 2, 1, 3, 4, 5  
 (C) 2, 1, 4, 3, 5 (D) 2, 4, 1, 3, 5

28. By rearranging the letters of 'CHARACTERS', we can get an English meaningful word. Each letter is denoted with a different number as shown in the table below. The combination of the numbers for the word, which is not meaningful, is \_\_\_\_\_.

1	2	3	4	5	6	7	8	9	10
C	H	A	R	A	C	T	E	R	S

- (A) 3 4 6 2 8 9 10 (B) 1 4 5 10 2 8 9  
(C) 10 6 9 3 7 6 2 (D) 6 5 9 10 2 8 4

29. Which two digits and signs can be interchanged so as to balance the given equation?  
 $120 + 168 \div 7 - 204 \times 3 = 1492$   
 (A) 7 and 3;  $\times$  and  $=$  (B) 168 and 204;  $\div$  and  $\times$   
 (C) 7 and 3;  $-$  and  $+$  (D) Both 'B' and 'C'

30. In the question below some statements are given followed by three conclusions I, II and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusion definitely follows from the given statements, disregarding commonly known facts.

**Statements:** Few Cars are Bikes

Some Bikes are Planes

Only a few Planes are Rockets

**Conclusions:** I. Some Bikes are not Rockets

II. All Cars can be Rockets

III. Few Planes are Cars

- (A) Only conclusion II and III follows  
 (B) Only conclusion II follows  
 (C) Only conclusion I and III follows  
 (D) None of these

### Quantitative Aptitude

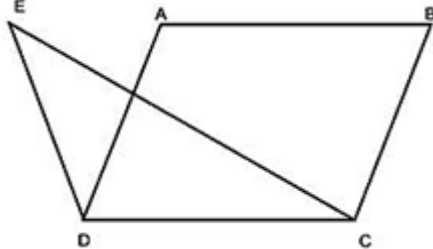
31. Find the smallest number that is divisible by 12, 22 and 32.  
 (A) 1096 (B) 948  
 (C) 1248 (D) 1056
32. What will come in the place of question mark (?) in the given expression?  
 $\{\sqrt{156.25} + \sqrt{56.25}\} \times (84.25 + 62.25 \div 5 - 37.75 + 32.17 \text{ of } 5) = ? + 45.5^2 - 25.5^2$   
 (A) 2076 (B) 2376  
 (C) 2976 (D) 2126
33. The ratio of quantity of four different fruits P, Q, R and S is 2:5:3:4. Average quantity of fruit P and fruit R is 45kg. The average quantity of fruit Q and S is 54kg. Then, what is the quantity of fruit Q?  
 (A) 80kg (B) 54kg  
 (C) 72kg (D) 60kg
34. The average weight of 52 bags of rice is 36 kilograms. If 8 new bags of rice are included, then the average weight of all 60 bags of rice becomes 38.2 kilograms. Find the average weight of the new 8 bags.  
 (A) 54 kilograms (B) 46.5 kilograms  
 (C) 52.5 kilograms (D) 48 kilograms
35. At present, the average age of 'A', 'B' and 'C' is 35 years, where the age of 'B' is 22 years more than that of 'C'. 5 years ago from now, the age of 'A' was 40% more than the age of 'C' at that time. Find the difference between present ages of 'A' and 'C'.  
 (A) 8 years (B) 11 years  
 (C) 7 years (D) 10 years

36. Total population (male + female) of a town is 5850 such that ratio of number of males to that of females, in the town is 15:11, respectively. If number of unmarried males in the town is 625 less than that of married males while total number of unmarried people in the town is 2250, then number of married females in the town is how much percent of number of married males.  
 (A) 80% (B) 20%  
 (C) 50% (D) 60%
37. The cost price of article 'B' is Rs. 120 more than that of article 'A'. If articles 'A' and 'B' are sold at profit of 25% and loss of 20%, respectively, then the selling price of article 'A' would be Rs. 75 more than that of 'B'. Find the cost price of article 'A'.  
 (A) Rs. 415 (B) Rs. 330  
 (C) Rs. 380 (D) Rs. 400
38. The selling price of an article when sold at a loss of 15% is Rs. 168 less than the selling price of the same article when selling at a profit of 20%. If the article had been marked 25% above its cost price and then sold after a discount of Rs. 60, then what would be its selling price.  
 (A) Rs. 600 (B) Rs. 510  
 (C) Rs. 540 (D) Rs. 520
39. A father invested ₹'X' and ₹(X + 625) at simple interest of 12% p.a. and compound interest of 20% p.a., compounded annually, respectively in the name of his two sons 'A' and 'B' who were 14 years old and 16 years, respectively such that both sons would receive equal interest at the time of their 18<sup>th</sup> birthday. Find the value of 'X'.  
 (A) 6250 (B) 8500  
 (C) 7125 (D) 6875
40. A 180 litre mixture contains of only milk and water in the ratio 7:8, respectively. If 8 litres of milk and 19 litres of water are added to this mixture, then find the ratio of quantities of water to that of milk, in the resultant mixture.  
 (A) 3:4 (B) 4:5  
 (C) 4:3 (D) 5:4
41. 'A' and 'B' together can complete a work in 110 days. 'B' and 'C' together can complete the same work in 90 days. 'A' and 'C' together can complete 50% of the same work in 49.5 days. Find the time taken by 'B' alone to complete 20% of the work.  
 (A) 44 days (B) 39.6 days  
 (C) 36 days (D) 41.2 days
42. A bus travels a total of 672 km where it travels the first 25% of the distance at a constant speed of 40 km/h and 50% of the remaining distance at a constant speed of 48 km/h. If the bus took a total of 13.95 hours for the journey, then find the speed at which the bus travelled the last part of the journey.  
 (A) 36 km/h (B) 56 km/h  
 (C) 60 km/h (D) 44 km/h
43. If  $(x^2 + 3^2) = (2x + 7)$ , then find the value of  $(x^4 - x^3 + x^2 + 8)$ .  
 (A) 12 (B) 6  
 (C) 20 (D) 2
44. A 3.5-metre-tall giraffe is 38.5 metres away from a tree. If the angle of inclination of the top of the tree from the eyes of the giraffe is 45°, then what is the ratio of the height of the tree to that of the giraffe?



- (A) 9:1  
(C) 12:1
- (B) 21:2  
(D) 28:3

45. In the given figure, AB is parallel to DC, AB = BC and AD is parallel to BC. If AC = 9 cm and BD = 14 cm, then find the area of  $\triangle ECD$  given that E, A and B are collinear.



- (A)  $35 \text{ cm}^2$   
(C)  $27.5 \text{ cm}^2$
- (B)  $31.5 \text{ cm}^2$   
(D)  $40 \text{ cm}^2$

46. If  $5\sin^2 a + 8\cos^2 a = 8$ , and,  $2\tan^2(a + 30^\circ) + \sec^2(2a + 45^\circ) - \sin^2 b = (23/12)$ , then find the value of 'b'.
- (A)  $60^\circ$   
(C)  $45^\circ$
- (B)  $90^\circ$   
(D)  $30^\circ$

47. If 'x' is added to 10, 12, 52 and 60, each then the numbers obtained will be in proportion. Find the value of  $(4x^2 - 16x + 8)$ .

- (A) 0  
(C) 2
- (B) 16  
(D) 8

48. In a stream flowing at a speed of 6 km/h, a boat takes 90 minutes more to travel 28 km in upstream than the time taken by it to travel 40 km in downstream. If the boat travels for 45 minutes in downstream and for 105 minutes in upstream, then find the total distance travelled by the boat.

- (A) 29 km  
(C) 22 km
- (B) 34 km  
(D) 44 km

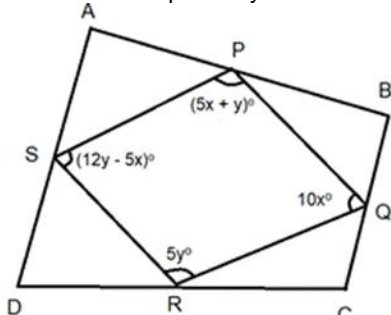
49. Ram lends Rs. 5,600 to Shyam at compound interest of 15% p.a., compounded annually. Find the interest received by Ram after 3 years

- (A) Rs. 2,916.9  
(C) Rs. 2,716.6
- (B) Rs. 2,616.5  
(D) Rs. 2,416.9

50. Find the smallest number from which when 17 is subtracted the number thus obtained leaves no remainder when divided by 48 or 70.

- (A) 1670  
(C) 1700
- (B) 1697  
(D) 1720

51. In the given figure, ABCD is a regular quadrilateral where P, Q, R and S are mid points of sides AB, BC, CD and DA respectively. Find the value of 'x'.



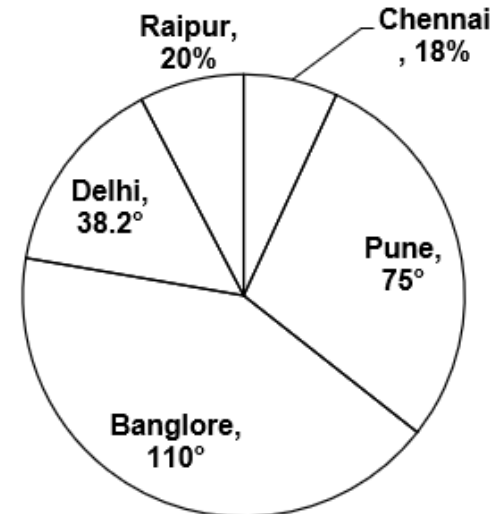
- (A)  $12^\circ$   
(C)  $15^\circ$
- (B)  $(150/13)^\circ$   
(D)  $(144/13)^\circ$

52. A road roller is in the shape of a solid cylinder with radius of 3.5 feet and volume of 462 cubic feet. How many revolutions does the roller need to make to

level a rectangular ground with length and breadth of 165 feet and 120 feet respectively? (Take  $\pi = 22/7$ )

- (A) 80  
(C) 55
- (B) 75  
(D) 60

53. The pie chart given below shows the degree/percentage distribution of the number of toys sold in 5 different cities out of total number of toys sold in all 5 cities together which equals 5400. Read the chart carefully and answer the question that follows:



Find the difference between the number of toys sold in Bangalore and the number of toys sold in Raipur.

- (A) 570  
(C) 620
- (B) 520  
(D) 550

54. The table given below shows the number of lions as percentage of sum of number of lions and tigers and difference between number of lions and number of tigers in 4 different forests. Read the table carefully and answer the question that follows:

Forest	Number of lions as percentage of sum of number of lions and tigers	Difference between number of lions and number of tigers
A	48%	18
B	40%	112
C	30%	140
D	72%	176

Find the average number of tigers in forests 'B' and 'D', together.

- (A) 196  
(C) 224
- (B) 240  
(D) 208

55. If area of an isosceles triangle is  $20\sqrt{11} \text{ cm}^2$  and length of its base (unequal side) is 20 cm, then find the length of equal sides of the triangle.

- (A) 12 cm  
(C) 8 cm
- (B) 15 cm  
(D) 18 cm

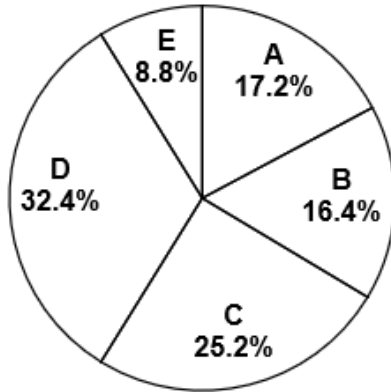
56. A cuboidal room has length and breadth of 18 metres and 16 metres, respectively and the volume of the air contained in the room is  $4320 \text{ m}^3$ . Find the sum of surface area of four walls and the ceiling of the room.

- (A)  $1308 \text{ m}^2$   
(C)  $1180 \text{ m}^2$
- (B)  $1424 \text{ m}^2$   
(D)  $1240 \text{ m}^2$

57. A hollow container is in the form of a right circular cone with diameter of the base of 12 cm and of height 24 cm. This container is completely filled with water. Find the radius of a spherical container which can hold exactly the same quantity of water.

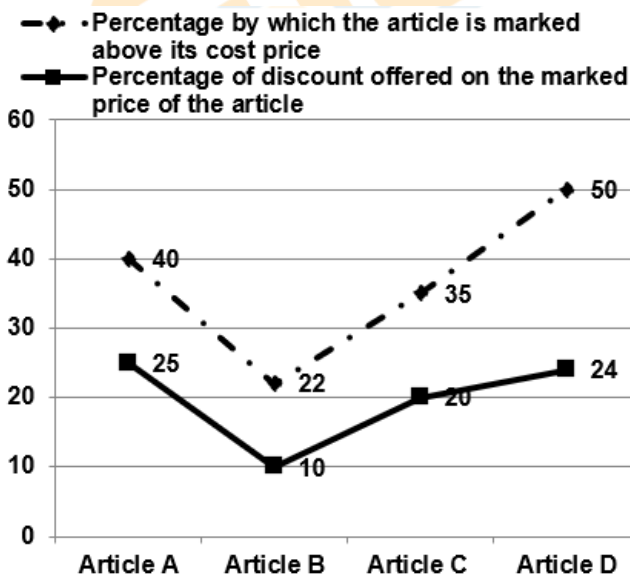
- (A) 12 cm  
(C) 6 cm
- (B) 8 cm  
(D) 4 cm

58. The pie chart given below shows the percentage distribution number of teachers (male + female) in five different schools out of total number of teachers in all the given five schools together which is 12500. Study the pie chart carefully and answer the question that follows.



If number of male teachers in school 'A' is 250 more than number of females teachers while number of male teachers in school 'D' is 80% of total number of teachers in that school, then find the difference between number of male teachers in school 'A' and 'D'.

- (A) 1720 (B) 2040  
(C) 1920 (D) 2420
59. Vansh and Varsha started a business together by investing ₹2800 and ₹4800 respectively where Vansh invested for 5 more months than Varsha. If the ratio of profit shares of Varsha and Vansh is 9:7, respectively, then find the number of months for which Vansh invested in the business.
- (A) 20 months (B) 22 months  
(C) 14 months (D) 16 months
60. The line graph given below shows the percentage by which an article is marked above its cost price and the percentage of discount offered on the marked price, for 4 different articles. Study the line graph carefully and answer the question that follows.



If the cost price of articles 'A' and 'D' are ₹400 and ₹300, respectively, then find the difference between their selling prices.

- (A) ₹60 (B) ₹120  
(C) ₹96 (D) ₹78

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## Section-II : 60 minutes

## English Language and Comprehension

61. In the following question, a sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
Did you clean the garden yesterday?  
(A) Were the garden cleaned by you yesterday?  
(B) Was the garden cleaned by you yesterday?  
(C) Have you cleaned the garden yesterday?  
(D) The garden was cleaned by you yesterday?
62. A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
The computer encountered a problem while running the program.  
(A) While running the program, the computer encountered a problem.  
(B) A problem was encountered by the computer while running the program.  
(C) A problem has been encountered by the computer while running the program.  
(D) A problem will be encountered by the computer while running the program.
63. A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
The water works board is supplying water on alternate days.  
(A) Water is supplied on alternate days by the water works board.  
(B) Water is being supplied on alternate days by water works board.  
(C) The water works boards has water that is being supplied on alternate days.  
(D) Water is being supplied on alternate days by the water works board.
64. In the following question, a sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
Did you remove your shoes before entering the house?  
(A) Were your shoes being removed by you before entering the house?  
(B) Remove your shoes before entering the house!  
(C) Were your shoes removed by you before entering the house?  
(D) Could you please remove your shoes before entering the house?
65. A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
The gardener is watering the plants on the weekends.  
(A) The gardener has been watering the plants on the weekends.  
(B) The plants have been watered by the gardener on the weekends.  
(C) The plants are watered by the gardener on the weekends.  
(D) The plants were watered by the gardener on the weekends.

66. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.  
Europe's energy crisis might been forcing companies to switch strategies or close down.  
(A) is being forced (B) is forcing  
(C) has been forced (D) No improvement
67. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'no substitution required'.  
But for my experience, when you buy off brand products there may be slightly different sizes.  
(A) at my experience  
(B) No substitution required  
(C) as my experience  
(D) in my experience
68. Which of the following is opposite in meaning to the underlined word?  
When the researchers accounted for the relationship between an electron's spin and momentum, they could explain why mercury has such a low threshold temperature (around - 270°C).  
(A) generating (B) floating  
(C) ending (D) binding
69. Select the correct meaning of the given idiom/phrase.  
Fire and brimstone  
(A) Reopen and quarrel (B) To punish  
(C) To forgive (D) To forget
70. Select the correct meaning of the given idiom/phrase.  
Sell ice to eskimos  
(A) To let a troublesome time pass  
(B) To be able to sell anything to anyone  
(C) To avoid an unpleasant situation  
(D) To be unclear

**Directions (71-75):** In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Sloths - the adorable and lethargic animals living in treetops - depend on the health and survival of Central and South American tropical forests. They spend much of their lives in the canopy, \_\_\_\_\_ and remaining hidden from predators. The animals live solitary lives and travel from tree to tree using \_\_\_\_\_ vines. Located in places such as Brazil and Panama, the six species of this strange and wonderful animal need healthy forests to survive. But tropical forests are some of the most vulnerable to \_\_\_\_\_. Loss of trees means animals are forced to live in smaller areas of land that can't support healthy populations. WWF works with communities, governments, companies and other partners to protect \_\_\_\_\_ and the animals that rely on them. Sloths have an extremely low metabolic rate, which means they move at a \_\_\_\_\_, sluggish pace through the trees. On average, sloths travel 41 yards per day - less than half the length of a football field!

71. \_\_\_\_\_ and remaining hidden from predators  
(A) Dancing (B) Singing  
(C) Snoozing (D) Tempting



72. from tree to tree using \_\_\_\_\_ vines.  
(A) Blueberry (B) Canopy  
(C) Grape (D) Damsel
73. most vulnerable to \_\_\_\_\_  
(A) Afforestation (B) Pollution  
(C) Deforestation (D) Sewage
74. other partners to protect \_\_\_\_\_  
(A) Landslides (B) Seas  
(C) Oceans (D) Forests
75. move at a \_\_\_\_\_, sluggish pace  
(A) Rocking (B) Dangerous  
(C) Languid (D) Soft
76. In the following question, a sentence is given with a phrase or idiom in brackets. Select the option given below that can replace the bracketed phrase.  
Older eaglets will (**pick off**) younger ones and if the adults don't bring in enough food the youngest chicks usually get eaten.  
(A) pick up (B) pick out  
(C) pick on (D) No Improvement
77. Given below are four jumbled sentences. Pick one of the given options that fit in their correct order.  
A. "We are going to the market," declared Reetu and Geetu.  
B. "Where are you going?" the father asked.  
C. "Take your umbrella, it is going to rain," the mother said.  
D. "Yes, definitely. We will," replied the two.  
(A) BACD (B) DCAB  
(C) ABDC (D) BCDA
78. Given below are four jumbled sentences. Pick one of the given options that fit in their correct order.  
A. It can also generate offensive or inappropriate content.  
B. Generative AI systems can create content for malicious purposes, such as deep fakes, disinformation, and propaganda.  
C. This media can potentially access sensitive information, raising concerns about data privacy and security.  
D. Nefarious actors may use AI-generated media to manipulate people and influence public opinion.  
(A) BADC (B) BDAC  
(C) DCAB (D) DACB
79. The question below consists of a set of labelled sentences. Out of the four given options, select the most logical order of the sentences to form a coherent paragraph.  
P. And protein and polysaccharides from mushrooms and some algae are poorly digested.  
Q. The degree of absorption depends on the composition of the food and on the eaters themselves.  
R. Fiber is not digested at all.  
S. The body can only fully extract calories from a sugar or glucose solution.  
(A) RSPQ (B) QPRS  
(C) SQRP (D) RPSQ
80. The question below consists of a set of labelled sentences. Out of the four given options, select the most logical order of the sentences to form a coherent paragraph.  
P. Now, health insurance plans also reward you for staying healthy.

Q. Mainly targeted at the younger consumer set, wellness benefits are earned by a policyholder who meets the fitness criteria of the insurer.  
R. So, every time you hit the gym or e-track your steps, your insurer can assess your risk profile better and reward you for performing better.  
S. The pandemic has been a wakeup call for everyone to take stock of their health and immunity.  
(A) QPRS (B) SRPQ  
(C) QRSP (D) SPRQ

81. In each of the questions given below, rearrange the sentences in the correct order, and choose the correct option.  
P. This is one of the reasons why Facebook, and now Meta, are designed in blue.  
Q. In the mid-twenties, Facebook founder Mark Zuckerberg took a colour-blindness test and realised that he was colour blind.  
R. In this way, one man's peculiarity influenced the colour scheme of the world's most visited site, and may have set a whole trend in social media design.  
S. He had trouble distinguishing between shades of red and green.  
(A) RQPS (B) SRPQ  
(C) QRPS (D) QSPR
82. In each of the questions given below, rearrange the sentences in the correct order, and choose the correct option.  
P. If you do get sick, it is vital to self-isolate and not go to work and social events for a minimum of seven days.  
Q. It is also valuable to test at the end of the seven-day isolation period to check that you are no longer positive and potentially infectious to those around you.  
R. Risk management is a partnership between individuals, their families, employers, venue operators, businesses and other organisations.  
S. The other partner is the government, which has a vital role in coordinating and guiding the public health response.  
(A) PSRQ (B) PQRS  
(C) RQPS (D) RPQS
83. Select the most appropriate option to fill in the blank and make a grammatically correct sentence.  
The scandal was \_\_\_\_\_ and it really defamed the reputation of the institution.  
(A) raged (B) Outrageous  
(C) Tagging (D) outraged
84. Select the most appropriate option to fill in the blank and make a grammatically correct sentence.  
The rise in health emergencies, transcending age groups, has \_\_\_\_\_ a caution alarm for youngsters to be prepared with a safety shield.  
(A) sounded (B) decided  
(C) mandated (D) gained
85. In the given sentence, a blank is given indicating that something is missing. From the given four options, choose the one that provides the correct word to be filled in the blank, thereby making the sentence grammatically and contextually correct.  
Unemployment does not have the same \_\_\_\_\_ consequences today as it did in the 1930s when most of the unemployed were primary breadwinners.  
(A) promising (B) dispute  
(C) prosperous (D) dire



86. In the given sentence, a blank is given indicating that something is missing. From the given four options, choose the one that provides the correct word to be filled in the blank, thereby making the sentence grammatically and contextually correct.  
Religion can have a significant and positive \_\_\_\_\_ on people's behaviour when it comes to moral decisions.  
(A) power (B) influence  
(C) flaw (D) attention
87. Select the most appropriate option to fill in the blank and make a grammatically correct sentence.  
If I \_\_\_\_\_ that you were coming over, I would have cancelled my programme.  
(A) had known (B) am knowing  
(C) know (D) knows
88. In the following question, a sentence has been given in the Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the sentence in the Indirect/Direct speech.  
Anamika said, "I have completed writing my novel."  
(A) Anamika said that she has completed writing novel.  
(B) Anamika said that she had completed writing her novel.  
(C) Anamika said that she had completely written her novel.  
(D) Anamika said that she completed novel writing.
89. In the following question a sentence has been given in direct/indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.  
Rohit said, "I was calling Naina when the train started."  
(A) Rohit said that he had called when the train had started.  
(B) Rohit said that he was calling Naina when the train had started.  
(C) Rohit said that he had been calling Naina when the train started.  
(D) Rohit said that he had been calling Naina when the train had started.
90. In the following question, a sentence has been given in Direct/ Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Direct/ Indirect speech.  
"I don't want to attend your party," he said to me.  
(A) He told me that he does not want to attend my party.  
(B) He told me that he did not want to attend my party.  
(C) He told me that he don't want to attend my party.  
(D) He told me that he had not wanted to attend my party.
91. In the following question a sentence has been given in direct/indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.  
Anjana said, "I was waiting for the train when he arrived."  
(A) Anjana said that she had waited for the train when he arrived.  
(B) Anjana said that she had been waiting for the train when he arrived.  
(C) Anjana told that she had was waiting for the train when he had arrived.  
(D) Anjana said that she was waiting for the train when he had been arriving.
92. In the following question, a sentence has been given in the Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the sentence in the Indirect/Direct speech.  
Rohan said, "I have completed writing my thesis."  
(A) Rohan said that he has completed writing thesis.  
(B) Rohan said that he had completed writing his thesis.  
(C) Rohan said that he had completely written his thesis.  
(D) Rohan said that he completed thesis writing.
93. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No error'.  
The mascot, as well (A)/ as the hockey players (B)/, volunteer at the school. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
94. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No error'.  
She had allege that she was asked to keep her gender identity secret and (A)/ that the principal had forced her to resign saying (B)/ students and teachers had found out about her gender. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
95. In the following question, one part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select option D, i.e. 'No error'.  
The verdict in this latest case is a breakthrough (A)/ for the prosecution, which has come (B)/ under increase scrutiny. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
- Directions [96-100]:** Read the given passage carefully and select the best answer to each question out of the four given alternatives.
- Literature is the foundation of life. It places an emphasis on many topics from human tragedies to the ever-popular tales of their search for love. These words come alive in the imagination of the mind, and its ability to comprehend the complexity or simplicity of the text. Literature enables people to see through the lens of others, and sometimes even inanimate objects. Therefore, it becomes a looking glass into the world as others view it. It is a journey that is inscribed on pages and powered by the imagination of the reader. Ultimately, literature has provided a gateway to teach the reader about life experiences from even the saddest stories to the most joyful ones that will touch their hearts. From a very young age, many are exposed to literature in the most stripped down form: picture books and simple texts that are mainly for the sole purpose of teaching the alphabet etc. Reading and being given the keys to the literature world prepares individuals from an early age to discover the true importance of literature; being able to comprehend and understand situations from many perspectives. With the ability to see the world with a pair of fresh eyes, it triggers the reader to reflect on their own lives. Reading something that is relatable to the reader may teach them morals and encourage them

to practise good judgement. This can be proven through public school systems, where the books that are emphasised the most tend to have a moral-teaching purpose behind the story. An example would be William Shakespeare's stories, where each one is meant to be reflective of human nature - both the good and the bad. Consequently, this can promote better judgement of situations, so the reader does not find themselves in the same circumstances as perhaps those in the fiction world. Henceforth, literature is proven to not only be reflective of life, but it can also be used as a guide for the reader to follow and practise good judgement from.

96. What does literature teach its readers?  
(A) Life experiences (B) Bad habits  
(C) Science (D) Drawing
97. What helps to discover the importance of literature?  
(A) Cramming (B) Learning  
(C) Debating (D) Reading
98. Whose stories teach one to be reflective of human nature?  
(A) William Shakespeare (B) John Milton  
(C) Rabindranath Tagore (D) Judith Butler
99. What is the foundation of life?  
(A) Literature (B) Art  
(C) Science (D) Social Science
100. What does literature enable people to see?  
(A) Inanimate objects (B) Reality  
(C) Fiction (D) Non-fiction
101. In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.  
One who walks in sleep  
(A) Somnambulist (B) Somniloquist  
(C) Soliloquy (D) Chauffeur
102. In the following question, spellings of four words are given, out of which only one is correct. Find the correctly spelled word.  
(A) posthumous (B) beligerent  
(C) discret (D) magnificent
103. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option.  
Our research shows that religion (A)/ offers a powerful opportunity (B)/ to inspire environmental action. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
104. In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.  
**CHIDE**  
(A) chastise (B) annoy  
(C) conjecture (D) avert
105. In each of the questions given below, rearrange the sentences in the correct order, and choose the correct option.  
A: Consumers must simply be more conscious of the types of fish that they consume.  
B: Mercury, which can accumulate in the body of animals we consume, is a powerful toxin that is

particularly harmful to the brain development of children and unborn foetuses.

C: Health authorities have warned that even the consumption of one can of white tuna a week by a pregnant mother can have damaging effects on her unborn baby.

D: Despite the danger from mercury, most consumers should not abandon fish eating and its heart-healthy benefits.

- (A) ACDB (B) BDAC  
(C) BCDA (D) DCBA

### General Awareness

106. The 'Jahangir Mahal' was built in 17th century by Bir Singh Deo. It is located in which city of India?  
(A) Agra (B) Delhi  
(C) Orchha (D) Lahore
107. The Citizenship Act, 1955, prescribes how many ways of losing citizenship of India?  
(A) 2 (B) 3  
(C) 4 (D) 5
108. Article 93 of the Constitution has the provisions related to \_\_\_\_\_.  
(A) Speaker and the Deputy Speaker of Lok Sabha  
(B) Advocate general of a state  
(C) Attorney general of India  
(D) Election Commissioner of India
109. The National Film Awards is the most prominent film award ceremony in India established in \_\_\_\_\_.  
(A) 1924 (B) 1934  
(C) 1954 (D) 1964
110. Which of the following desert of Australia is located to east of other three?  
(A) Little Sandy Desert (B) Gibson Desert  
(C) Simpson Desert (D) Sturt Stony Desert
111. Study of heart and its functioning is known as \_\_\_\_\_.  
(A) Cardiology (B) Cartology  
(C) Cetology (D) Conchology
112. What is the rank of India among 63 countries in the Climate Change Performance Index (CCPI) 2023?  
(A) 10<sup>th</sup> (B) 9<sup>th</sup>  
(C) 8<sup>th</sup> (D) 7<sup>th</sup>
113. How many hearts are there in octopus?  
(A) 1 (B) 2  
(C) 3 (D) 4
114. 'Srikrishnan Harihara Sarma' has been appointed as the MD and CEO of which bank?  
(A) Yes Bank (B) IDBI Bank  
(C) Karnataka Bank (D) HDFC Bank
115. Which country has launched the 'Shenzhou-16' Mission?  
(A) Japan (B) China  
(C) South Korea (D) Israel
116. Which institution reconstituted intermediary advisory committee for legal framework?  
(A) RBI (B) SEBI  
(C) NPCI (D) IRDAI
117. Peter Mundy was a/an \_\_\_\_\_.  
(A) French traveler (B) Spanish traveler  
(C) Italian traveler (D) Portuguese traveler

118. Who was not the member of Cabinet Mission of 1946?  
 (A) Lord Pentthick-Lawrence  
 (B) Sir Stafford Cripps  
 (C) A.V Alexander  
 (D) Lord Wavell
119. Aaliya Bet is a small island located in the state of \_\_\_\_\_.  
 (A) Maharashtra (B) Gujarat  
 (C) Andhra Pradesh (D) Tamil Nadu
120. 'Lavani' is a combination of traditional song and dance, which is popular in \_\_\_\_\_.  
 (A) Rajasthan (B) Nagaland  
 (C) Bihar (D) Maharashtra
121. Which is the national animal of Bhutan?  
 (A) Marco Polo Sheep (B) Puma  
 (C) Takin (D) Bull
122. Vishnupad Temple is located at Gaya, Bihar. It was built in the year 1787 A.D. by \_\_\_\_\_.  
 (A) Rani Durgavati (B) Rani Avantibai Lodhi  
 (C) Rani Karnavati (D) Queen Ahilyabai
123. 'Bai' is a delicacy of which of the following states' cuisine?  
 (A) Mizoram (B) Nagaland  
 (C) Sikkim (D) Tripura
124. Iberian Peninsula is located in which of the following continent of the world?  
 (A) Asia (B) Europe  
 (C) Africa (D) Australia
125. Which of the following ranks is the highest in Indian Army?  
 (A) General (B) Lieutenant general  
 (C) Major general (D) Brigadier
126. The 'Saptak Annual Festival of Music' is held in which state of India?  
 (A) Haryana (B) Gujarat  
 (C) Punjab (D) Assam
127. 'Ghum railway station' is the highest railway station in India. It is located in which state of India?  
 (A) Sikkim (B) Arunachal Pradesh  
 (C) West Bengal (D) Himachal Pradesh
128. As per the census of India 2011, numbers of towns in India are \_\_\_\_\_.  
 (A) 5161 (B) 7,935  
 (C) 10,000 (D) 8,933
129. The United Nations Environment Programme was started in which year?  
 (A) 1945 (B) 1956  
 (C) 1972 (D) 1992
130. The 'Lokpriya Gopinath Bordoloi International Airport' is located in which state of India?  
 (A) Assam (B) Chhattisgarh  
 (C) Jharkhand (D) Manipur

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## Section-III : 15 minutes

## Computer Knowledge

131. A point of intersection within a data communication network is called as \_\_\_\_\_.  
(A) Node (B) Block  
(C) Packets (D) Router
132. \_\_\_\_\_ is a method of trying to gather personal information using deceptive e-mails and websites.  
(A) Phishing (B) Hacking  
(C) Cyber Bullying (D) Cyberstalking
133. What is the minimum and the maximum zoom percentage supported by Microsoft PowerPoint?  
(A) 10%, 400% (B) 15%, 200%  
(C) 10%, 500% (D) 20%, 200%
134. The mails that are deleted from the Inbox will be saved in which of the following folder?  
(A) All Mail (B) Compose  
(C) Draft (D) Trash
135. HTML tags are keywords which defines how web browser will format and display the content. Which type of brackets makes an HTML tag?  
(A) Angular brackets < > (B) Square brackets []  
(C) Inverted Comma "" (D) Flower brackets {}
136. Which device is used in the data-link layer of the OSI model among the following list of devices?  
(A) Router (B) Repeater  
(C) Bridges (D) Gateway
137. Cyber-attack designed to disable, shut down or disrupt a network or website is:  
(A) Brute force (B) Denial of Service  
(C) Session Hijacking (D) DNS Spoofing
138. When you double-click a file, a program that automatically opens the file is called as \_\_\_\_\_.  
(A) Hardwired Program (B) Present Program  
(C) Default Program (D) Direct Program
139. \_\_\_\_\_ is a name used to uniquely identify a computer file in a directory structure.  
(A) File Format (B) File ID  
(C) File Division (D) File Name
140. In Microsoft Excel, which shortcut key can be applied to Open the excel formula window?  
(A) Ctrl + O (B) Ctrl + Z  
(C) Ctrl + F6 (D) Shift + F3
141. \_\_\_\_\_ can be considered as the backbone of a computer that govern every other aspect of the system.  
(A) System Board (B) Motherboard  
(C) Main Board (D) Holders
142. While browsing the internet, which of the following key is used for full screen view?  
(A) F12 (B) F7  
(C) F10 (D) F11
143. Which port is developed to connect high definition devices such as digital cameras and gaming consoles?  
(A) USB (B) HDMI  
(C) RCA (D) DVI
144. Which key is primarily used to return the typing cursor to the beginning of the line on which you're currently typing?  
(A) Page down key (B) Page up key  
(C) Tab key (D) Home key
145. Which of the following version of Windows was introduced after Windows Vista?  
(A) Windows 7 (B) Windows 10  
(C) Windows XP (D) Windows NT
146. What is the function of Auto Correct facility in all MS Office applications?  
(A) Replacing incorrectly spelled words while typing  
(B) Replacing repeated words with 'same' words  
(C) Replacing grammatically incorrect words with correct words  
(D) Replacing the selected word replacing with the word 'auto'
147. A new version of IP -IPv6 using how many bits for the IP address which was standardized in the year 1998?  
(A) 128 (B) 32  
(C) 64 (D) 192
148. \_\_\_\_\_ is a printer that uses a focused beam or light to transfer text and images onto paper.  
(A) Thermal printer (B) Band printer  
(C) Daisy wheel (D) Laser printer
149. Which among the following is a piece of text that when clicked takes the user to a webpage?  
(A) Hyperlink (B) URL  
(C) Website (D) Browser
150. What is a Bootstrap?  
(A) A device to support the computer  
(B) A memory device  
(C) A networking device  
(D) A small initialization program to start up the computer

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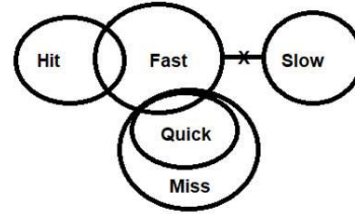
## Reasoning and General Intelligence

1. **Answer: (D)**  
The logic followed here is as follows:  
In 28: 364  
 $28 \times 13 = 364$   
In 34: 442  
 $34 \times 13 = 442$   
In 19: 247  
 $19 \times 13 = 247$   
But in 23: 322  
 $23 \times 13 = 299$   
Hence, option d.
2. **Answer: (B)**  
Dehradun is winter capital city of Uttarakhand in the same way Dharamshala is winter capital city of Himachal Pradesh.
3. **Answer: (A)**  
The logic followed here is as follows,  
For XAD: GJM: PSV  
 $X + 3 = A$ ,  $A + 3 = D$ ,  $D + 3 = G$ ,  $G + 3 = J$ ,  $J + 3 = M$ ,  
 $M + 3 = P$ ,  $P + 3 = S$ ,  $S + 3 = V$   
For QTW: ? : ILO,  
 $Q + 3 = T$ ,  $T + 3 = W$ ,  $W + 3 = Z$ ,  $Z + 3 = C$ ,  $C + 3 = F$ ,  
 $F + 3 = I$ ,  $I + 3 = L$ ,  $L + 3 = O$   
So, ZCF will be the fifth term.  
Hence, option a.
4. **Answer: (C)**  
The pattern followed here is as follows:  
 $18 + 2 \geq 18 + 8 = 26$   
 $26 + 2^2 = 26 + 4 = 30$   
 $30 + 3 \geq 30 + 27 = 57$   
 $57 + 3^2 = 57 + 9 = 66$   
 $66 + 4 \geq 66 + 64 = 130$   
 $130 + 4^2 = 130 + 16 = 146$   
Hence, option c.
5. **Answer: (D)**  
The series is given below:  
k l l m n n o / k l l m n n o / k l l m n n o / k l l m n n o
6. **Answer: (B)**  
The final arrangement is as follows:
- | Box Number | Color  |
|------------|--------|
| 6          | Yellow |
| 5          | Blue   |
| 4          | Green  |
| 3          | Red    |
| 2          | Black  |
| 1          | Orange |
- There are three boxes between Orange and Blue box.  
Hence, option b.
7. **Answer: (B)**  
Number of odd days in a non-leap year is 1 and number of odd days in a leap year are 2  
There are 8 non-leap years (2018, 2019, 2021, 2022, 2023, 2025, 2026 and 2027) and 2 leap year 2020 and 2024 from March 19, 2017 to March 19, 2027  
So, total number of odd days will be:  
From March 19, 2017 to March 18, 2018: 1  
From March 19, 2018 to March 18, 2019: 1  
From March 19, 2019 to March 18, 2020: 2  
From March 19, 2020 to March 18, 2021: 1  
From March 19, 2021 to March 18, 2022: 1  
From March 19, 2022 to March 18, 2023: 1  
From March 19, 2023 to March 18, 2024: 2  
From March 19, 2024 to March 18, 2025: 1  
From March 19, 2025 to March 18, 2026: 1  
From March 19, 2026 to March 18, 2027: 1  
So, total number of odd days is 12.  
Odd days = Remainder of  $(12 / 7) = 5$  odd days (As remainder of the number is final odd number of days)  
So, on March 19, 2027, it will be Friday (As Sunday + 5 odd days = Friday).

8.

**Answer: (D)**

The following Venn diagram can be drawn from the given statements,



From the above diagram conclusion I follows.

The part of Hit which is Fast can never be Slow, so conclusion II follows.

The part of Quick which is Fast can never be Slow, so conclusion III follows.

So, all the conclusions follow.

Hence, option d.

9.

**Answer: (C)**

The logic followed here is as follows,

Each vowel is replaced with the letter having same place value, when the letters are written in reverse alphabetical order. Each consonant is replaced with its 5<sup>th</sup> succeeding letter as per English alphabetical order.

For PENGUIN,

P	E	N	G	U	I	N
U	V	S	L	F	R	S

So, code for 'PENGUIN' is 'UVSLFRS'.

For FATHER,

F	A	T	H	E	R
K	Z	Y	M	V	W

So, code for 'FATHER' is 'KZYMVW'.

For EMPEROR,

E	M	P	E	R	O	R
V	R	U	V	W	L	W

So, code for 'EMPEROR' is 'VRUVWLW'.

10.

**Answer: (B)**

I. 'one eight nine four' is coded as 'da, kw, st, qh'

II. 'four two nine' is coded as 'zw, kw, da'

III. 'nine one six' is coded as 'st, da, lv'

From statement I, II and III, 'nine' is coded as 'da'.

From statement I and II, 'four' is coded as 'kw'.

From statement I and III, 'one' is coded as 'st'.

From statement I alone, 'eight' is coded as 'qh'.

From statement II alone, 'two' is coded as 'zw'.

From statement III alone, 'six' is coded as 'lv'.

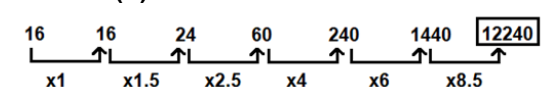
So, the word and their respective code are as follows:

Word	nine	four	one	eight	two	six
Code	da	kw	st	qh	zw	lv

So, 'six two eight' is coded as 'lv, zw, qh'.

Hence, option b.

11.

**Answer: (B)**

'12240' will complete the given series.

16, 16, 24, 60, 240, 1440, 12240

Hence, option b.

12.

**Answer: (B)**

Given: ADJUSTMENT

There are two pairs (ST and JE) in the word 'ADJUSTMENT' which has as many letter in both the forward direction and the backward direction, as there between them as per English alphabetical order.

13.

**Answer: (C)**

The logic followed here is as follows:

In each column,  
Square of 1<sup>st</sup> number + square of 3<sup>rd</sup> number =  
2<sup>nd</sup> number.

In Column 1 [23, 853, 18]

$$[23]^2 + [18]^2 = 529 + 324 = 853$$

In Column 2 [17, 458, 13]

$$[17]^2 + [13]^2 = 289 + 169 = 458$$

Similarly,

In Column 3 [26, ?, 14]

$$[26]^2 + [14]^2 = 676 + 196 = 872$$

14. **Answer: (C)**

The logic followed here is as follows:

Number of letters in each word is added to the place value of each letter of that word as per English alphabetical order.

For CREATE,

There are 6 letters in the word CREATE.

C	R	E	A	T	E
3	18	5	1	20	5
+6	+6	+6	+6	+6	+6
9	24	11	7	26	11

So, the code for 'CREATE' is '9 24 11 7 26 11'

For SMILE,

S	M	I	L	E
19	13	9	12	5
+5	+5	+5	+5	+5
24	18	14	17	10

So, the code for 'SMILE' is '24 18 14 17 10'

For DONKEY,

D	O	N	K	E	Y
4	15	14	11	5	25
+6	+6	+6	+6	+6	+6
10	21	20	17	11	31

So, the code for 'DONKEY' is '10 21 20 17 11 31'.

Hence, option c.

15. **Answer: (B)**

Given: 123 B 154 C 7 D 12 A 8

On replacing the letters with mathematical operators,

$$123 + 154 \div 7 - 12 \times 8$$

$$= 123 + 22 - 96$$

$$= 145 - 96$$

$$= 49$$

So, the value of the given expression is '49'.

16. **Answer: (B)**

Given expression:

$$[(312 \# 13) @ 19] \& 3] \% \{(2 \& 78) \% 46\}$$

Replacing letters with the signs in the expression:

$$[(312 \div 13) + 19] \times 3 - \{(2 \times 78) - 46\}$$

Using rule of BODMAS, we get:

$$= [(312 \div 13) + 19] \times 3 - \{(2 \times 78) - 46\}$$

$$= [(24 + 19) \times 3] - \{156 - 46\}$$

$$= [43 \times 3] - 110$$

$$= 129 - 110$$

$$= 19$$

Hence, option b.

17. **Answer: (D)**

Word I: This word can be formed using the letters only once.

Word II: This word can be formed using the letters only once.

Word III: This word can be formed using the letters only once.

Hence, option d.

18. **Answer: (C)**

The logic followed here is as follows,

1) If the time is between 1 and 11 then to find the actual time, the given time is subtracted by 11:60.

2) If the time is between 11 and 1 then to find the actual time, the given time is subtracted by 23:60.

As, the time is between 1 and 11, so, the given time is subtracted by 11:60.

$$23:60 - 12:18 = 11:42$$

So, the time shown in the clock is 11:42hrs.

For angle between hour hand and minute hand at 11:42hrs,

The logic followed here is as follows,

Hour hand makes an angle of  $30^\circ$  in one hour and an angle of  $0.5^\circ$  in one minute.

Similarly, minute hand makes an angle of  $6^\circ$  in one minute.

$$\text{So, angle made by hour hand at 11:42hrs} = (11 \times 30 + 0.5 \times 42) = 330 + 21 = 351^\circ$$

$$\text{Similarly, the angle made by minute hand at 11:42hrs} = 42 \times 6 = 252^\circ$$

$$\text{So, the angle between the hour and minute hand at 11:42hrs} = 351^\circ - 252^\circ = 99^\circ$$

Thus the time shown in the clock is 11:42hrs and the angle between the minute and the hour hand is  $99^\circ$ .

19.

**Answer: (B)**

**Clues:**

1) U is the father of P.

2) O, who is married to N, is the only son of U.

3) Q is the nephew of P.

4) L, who is not mother of N, is the grandmother of Q.

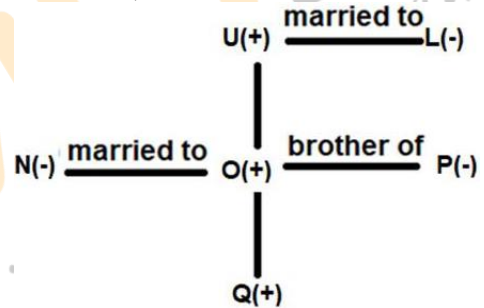
**Inferences:**

From clue 1 and clue 2, O is the husband of N. Also, P is the daughter of U.

From clue 3, Q is the son of O.

From clue 4, L is wife of U.

The following family tree can be drawn from the given statements,



Thus, P is the daughter of L.

20.

**Answer: (D)**

P - T (17m) means P is 17m north of T.

V x T (15m) means V is 15m east of T.

V ÷ Q (17m) means V is 17m south of Q.

Q + U (14m) means Q is 14m west of U.

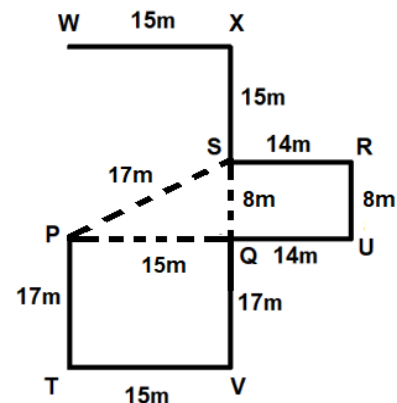
R - U (8m) means R is 8m north of U.

S + R (14m) means S is 14m west of R.

X - S (15m) means X is 15m north of S.

X x W (15m) means X is 15m east of W.

The final figure is given below:



Hence, option d.

21.

**Answer: (C)**

Following pairs of letters will appear on opposite sides of cube,  
(5 is opposite to 2).



(6 is opposite to 1).  
(4 is opposite to 3).

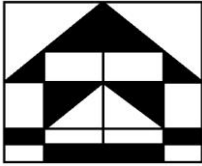
22. **Answer: (D)**

As the digits of the letter are represented by rows and columns respectively:

G	O	L	D	E	N
00, 56	22, 75	13, 44	30, 64	02, 46	33, 76

So, '56, 22, 44, 30, 46, 76' is the correct set of the word 'GOLDEN'.

23. **Answer: (C)**



Hence, option c.

24. **Answer: (A)**

The mirror image of the given combination is as follows:

M N ! @ 2 3 # 4 & n m | m n & # 4 3 2 @ ! N M

Hence, option a.

25. **Answer: (C)**

The piece of paper when unfolded will appear will as follows,



Hence, option c.

26. **Answer: (C)**

**Clues:**

- 1) Anu sits adjacent to Gina.
- 2) No person sits to the right of Gina.
- 3) Pam sits third to the right of Neha.
- 4) Bill sits second to the left of Dan.
- 5) Bill does not sit at the extreme end seat.

**Inferences:**

From clue 1 and clue 2, Gina sits at the extreme right end seat and thus Anu sits immediate left of Gina.

From clue 3, either Pam sits immediate left of Anu or Pam sits second to the left of Anu.

Case 1: Pam sits immediate left of Anu

From clue 4, Dan sits immediate right of Neha and thus Bill sits second to the left of Dan.

Bill	Neha	Dan		Pam	Anu	Gina
------	------	-----	--	-----	-----	------

This however violates clue 5. So, this case can be rejected.

Case 2: Pam sits second to the left of Anu

From clue 4, Dan sits immediate right of Pam and thus Bill sits second to the left of Dan.

The only person remaining is Hank, who sits immediate left of Bill.

Neha	Hank	Bill	Pam	Dan	Anu	Gina
------	------	------	-----	-----	-----	------

Thus, five people sit to the right of Hank.

Hence, option c.

27. **Answer: (C)**

The correct arrangement of the given words in the order in which they appear in an English dictionary is:

2- CURATIVES, 1- CURBSIDE, 4- CURRENCY, 3- CURRENT, 5- CURRICLES

"2, 1, 4, 3, 5" is the correct arrangement.

Hence, option c.

28. **Answer: (D)**

Given:

1	2	3	4	5	6	7	8	9	10
C	H	A	R	A	C	T	E	R	S

From option [a], we get,  
ARCHERS is a meaningful word.

From option [b], we get,  
CRASHER is a meaningful word.

From option [c], we get,  
SCRATCH is a meaningful word.

From option [d], we get,  
CARSHER is not a meaningful word.

'6 5 9 10 2 8 4' is the combination of the numbers for the word, which is not meaningful word.

Hence, option d.

29. **Answer: (D)**

Given Equation:  $120 + 168 \div 7 - 204 \times 3 = 1492$

Interchanging the digits and signs given in option [a], we get:

$$120 + 168 \div 3 - 204 = 7 \times 1492$$

$$120 + 56 - 204 = 10444$$

$$176 - 204 = 10444$$

$$-28 \neq 10444$$

Interchanging the digits and signs given in option [b], we get:

$$120 + 204 \times 7 - 168 \div 3 = 1492$$

$$120 + 204 \times 7 - 56 = 1492$$

$$120 + 1428 - 56 = 1492$$

$$1548 - 56 = 1492$$

$$1492 = 1492$$

Interchanging the digits and signs given in option [c], we get:

$$120 - 168 \div 3 + 204 \times 7 = 1492$$

$$120 - 56 + 204 \times 7 = 1492$$

$$120 - 56 + 1428 = 1492$$

$$1548 - 56 = 1492$$

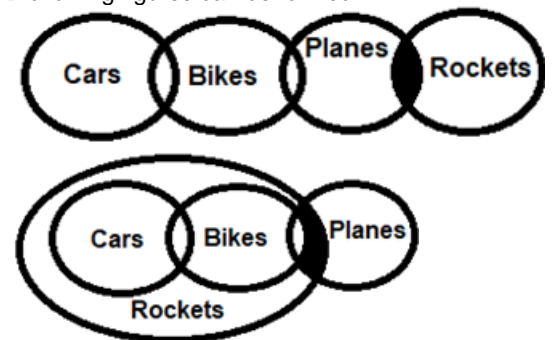
$$1492 = 1492$$

So, after interchanging the digits and signs given in option 'b' and option 'c', we can get a balance equation.

Hence, option d.

30. **Answer: (B)**

Following figures can be formed:



I. Some Bikes are not Rockets: Doesn't follow (As, no definite relation between Bikes and Rockets. So, no definite conclusion follows)

II. All Cars can be Rockets: Follows (As, there is no direct relation between Cars and Rockets. So, all possible conclusions follow)

III. Few Planes are Cars: Doesn't follow (As no direct relation between Planes and Cars. So, no definite conclusion follows)

Hence, option b.

## Quantitative Aptitude

31. **Answer: (D)**

Smallest number that is divisible by 12, 22 and 32 is the L.C.M of 12, 22 and 32

Required number = 1056

Hence, option d.

32. **Answer: (C)**

$$\{\sqrt{156.25} + \sqrt{56.25}\} \times (84.25 + 62.25 \div 5 - 37.75 + 32.17 \text{ of } 5) = ? + 45.5^2 - 25.5^2$$

$\{12.5 + 7.5\} \times (84.25 + 12.45 - 37.75 + 160.85) = ? + (45.5 - 25.5) (45.5 + 25.5)$   
 $20 \times 219.8 = ? + 71 \times 20$   
 $? + 1420 = 4396$   
 $? = 4396 - 1420 = 2976$   
Hence, option c.

33. **Answer: (D)**

Let the quantity of fruits P, Q, R and S are 2x, 5x, 3x and 4x, respectively.  
Average quantity of fruits Q and S = 54kg  
Total quantity of fruits Q and S =  $54 \times 2 = 108$ kg  
Here Q = 5x and S = 4x  
 $5x + 4x = 108$ kg  
 $9x = 108$ kg  
 $x = 108 \div 9$   
 $x = 12$ kg  
So, the quantity of fruit Q = 5x  
 $5 \times 12 = 60$ kg  
Hence, option d.

34. **Answer: (C)**

Total weight of 52 bags of rice =  $52 \times 36 = 1872$  kilograms  
Total weight of 60 bags of rice =  $60 \times 38.2 = 2292$  kilograms  
Sum of weight of 8 new bags of rice =  $2292 - 1872 = 420$  kilograms  
The average weight of the new 8 bags =  $(420/8) = 52.5$  kilograms

35. **Answer: (A)**

Sum of present ages of 'A', 'B' and 'C' =  $35 \times 3 = 105$  years  
Let the present age of 'C' = 'x' years  
Then, present age of 'B' =  $(x + 22)$  years  
Present age of 'A' =  $105 - (x + x + 22) = (83 - 2x)$  years  
5 years ago from now, age of 'A' =  $83 - 2x - 5 = (78 - 2x)$  years  
5 years ago from now, age of 'C' =  $(x - 5)$  years  
According to the question,  
 $(78 - 2x) = (x - 5) \times 1.4 = (1.4x - 7)$   
Or,  $78 + 7 = 1.4x + 2x$   
So,  $x = 85 \div 3.4 = 25$   
Present age of 'A' =  $83 - 2 \times 25 = 33$  years  
So, difference between ages of 'A' and 'C' =  $33 - 25 = 8$  years

36. **Answer: (A)**

Number of males in the town =  $(15/26) \times 5850 = 3375$   
Number of females in the town =  $5850 - 3375 = 2475$   
Let number of married males in the town = 'x'  
Number of unmarried males in the town =  $(x - 615)$   
So,  $x + x - 625 = 3375$   
Or,  $2x = 4000$   
Or,  $x = 2000$   
So, number of married males in the town = 2000  
And, number of unmarried males in the town =  $2000 - 615 = 1375$   
Number of unmarried females in the town =  $2250 - 1375 = 875$   
Number of married females in the town =  $2475 - 875 = 1600$   
Required percentage =  $(1600/2000) \times 100 = 80\%$   
Hence, option a.

37. **Answer: (C)**

Let the cost price of article 'A' = Rs. 'X'  
Then, cost price of article 'B' = Rs.  $(X + 120)$   
Selling price of article 'A' =  $X \times 1.25$  = Rs. '1.25X'  
Selling price of article 'B' =  $(X + 120) \times 0.8 = (0.8X + 96)$   
According to the question,  
 $1.25X - (0.8X + 96) = 75$   
Or,  $0.45X - 96 = 75$   
So,  $X = (75 + 96) \div 0.45 = 380$   
Therefore, cost price of article 'A' = Rs. 380

Hence, option c.

38. **Answer: (C)**

Let the cost price of the article = Rs. 100x  
Then, according to the question,  
 $(100x \times 1.2) - (100x \times 0.85) = 168$   
Or,  $120x - 85x = 168$   
Or,  $35x = 168$   
So,  $x = (168/35) = 4.8$   
So, cost price of the article =  $4.8 \times 100 =$  Rs. 480  
So, desired selling price =  $(480 \times 1.25) - 60 =$  Rs. 540  
Hence, option c.

39. **Answer: (D)**

Number of years until A's 18<sup>th</sup> birthday =  $18 - 14 = 4$  years  
Simple interest received by 'A' =  $X \times 12 \times 4 \div 100 = ₹0.48X$   
Compound interest received by 'B' =  $(X + 625) \times \{(1 + (20/100))^2 - (X + 625)\}$   
 $= (X + 625) \times 1.2^2 - (X + 625)$   
 $= 1.44X + 900 - (X + 625) = ₹(0.44X + 275)$   
According to the question,  
 $0.48X = 0.44X + 275$   
So,  $X = 275 \div 0.04 = 6875$

40. **Answer: (D)**

Quantity of milk in 180 litres mixture =  $180 \times (7/15) = 84$  litres  
Quantity of water in 180 litres mixture =  $180 - 84 = 96$  litres  
After adding 8 litres of milk and 19 litres of water,  
Ratio of quantities of water and milk respectively =  $(96 + 19):(84 + 8) = 115:92 = 5:4$

41. **Answer: (B)**

Time taken by 'A' and 'C' together to complete 100% of the work =  $49.5 \times 2 = 99$  days  
Let the total work = L.C.M of 110, 90 and 99 = 990 units  
Then, combined efficiency of 'A' and 'B' =  $990 \div 110 = 9$  units/day  
Combined efficiency of 'B' and 'C' =  $990 \div 90 = 11$  units/day  
Combined efficiency of 'A' and 'C' =  $990 \div 99 = 10$  units/day  
So,  $2 \times$  efficiency of 'B' =  $(9 + 11) - 10 = 10$  units/day  
So, efficiency of 'B' =  $(10/2) = 5$  units/day  
20% of the total work =  $990 \times 0.2 = 198$  units  
So, time taken by 'B' alone to complete 20% of the work =  $198 \div 5 = 39.6$  days

42. **Answer: (B)**

25% of the distance =  $672 \times 0.25 = 168$  km  
So, time taken to cover the 168 km =  $168 \div 40 = 4.2$  hours  
50% of the remaining distance =  $(672 - 168) \times 0.5 = 252$  km  
Time taken to cover the 252 km =  $252 \div 48 = 5.25$  hours  
Remaining distance = 252 km  
Remaining time =  $13.95 - (5.25 + 4.2) = 4.5$  hours  
So, speed at which the last 252 km was travelled =  $252 \div 4.5 = 56$  km/h

43. **Answer: (B)**

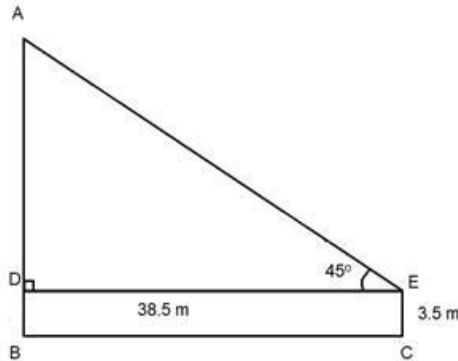
Given that,  
 $x^2 + 3^2 = 2x + 7$   
or,  $x^2 + 9 = 2x + 7$   
or,  $x^2 + 2 = 2x$   
squaring on both sides,  
 $(x^2 + 2)^2 = (2x)^2$   
Or,  $x^4 + 4x^2 + 4 = 4x^2$   
Or,  $x^4 + 4 = 0$   
So,  $x^4 = -4$   
And,  $x^2 = 2x - 2 = 2(x - 1)$   
So,  $(x - 1) = (x^2/2)$   
 $x^4 - x^3 + x^2 + 8$   
 $= -4 - x^2(x - 1) + 8$

$$\begin{aligned}
 &= 4 - x^2 \times (x^2/2) \\
 &= 4 - (x^4/2) \\
 &= 4 - (-4/2) \\
 &= 4 + 2 = 6
 \end{aligned}$$

44. **Answer: (C)**

In the below representation,  
Let AB be the tree and 'C' be the point on the ground the giraffe is standing.  
Then, AC is the distance between the giraffe and the tree.

Angle  $\angle BCA$  is the angle of inclination.



In right triangle ADE  
 $\tan 45^\circ = (AD/DE) = (AD/38.5) = 1$   
 So, AD = 38.5 metres  
 And, AB = 38.5 + 3.5 = 42 metres  
 Therefore, required ratio =  $42:(3.5) = 12:1$   
 Hence, option c.

45. **Answer: (B)**

We have AB is parallel to DC and AD is parallel to BC,  
 So, ABCD is a parallelogram  
 Also, AB = BC, so ABCD is a rhombus  
 So, area of the rhombus =  $(1/2) \times$  product of the length of the diagonals  
 $= (1/2) \times 9 \times 14 = 63 \text{ cm}^2$   
 The area of a triangle on the same base and between the same parallel lines is half the area of the parallelogram  
 So, area of  $\triangle ECD = (1/2) \times 63 = 31.5 \text{ cm}^2$

46. **Answer: (A)**

$$\begin{aligned}
 5\sin^2 a + 8\cos^2 a &= 8 \\
 \text{Or, } 5\sin^2 a + 5\cos^2 a + 3\cos^2 a &= 8 \\
 \text{Or, } 5(\sin^2 a + \cos^2 a) + 3\cos^2 a &= 8 \\
 \text{Or, } 3\cos^2 a &= 8 - 5 = 3 \\
 \text{So, } \cos^2 a &= (3/3) = 1 \\
 \text{So, } \cos a &= \sqrt{1} = 1 \\
 \text{So, } a &= 0^\circ \\
 2\tan^2(a + 30)^\circ + \sec^2(2a + 45)^\circ - \sin^2 b &= 2\tan^2(0 + 30)^\circ + \sec^2(2 \times 0 + 45)^\circ - \sin^2 b \\
 &= 2 \times (1/\sqrt{3})^2 + (\sqrt{2})^2 - \sin^2 b \\
 &= (2/3) + 2 - \sin^2 b \\
 &= (8/3) - \sin^2 b = (23/12) \\
 \text{So, } \sin^2 b &= (8/3) - (23/12) = (9/12) = (3/4) \\
 \text{So, } \sin b &= (\sqrt{3}/2) \\
 \text{Therefore, } b &= 60^\circ
 \end{aligned}$$

47. **Answer: (D)**

$$\begin{aligned}
 \text{ATQ;} \\
 \{(10 + x)/(12 + x)\} &= \{(52 + x)/(60 + x)\} \\
 \text{Or, } (10 + x)(60 + x) &= (12 + x)(52 + x) \\
 \text{Or, } 600 + x^2 + 70x &= 624 + 64x + x^2 \\
 \text{Or, } 6x &= 24 \\
 \text{Or, } x &= 4 \\
 \text{So, } 4x^2 - 16x + 8 &= 4 \times 16 - 16 \times 4 + 8 = 8 \\
 \text{Hence, option d.}
 \end{aligned}$$

48. **Answer: (A)**

Let the speed of the boat in still water = 'x' km/h  
 Then, upstream and downstream speed of the boat is (x - 6) and (x + 6) km/h, respectively  
 According to the question,

$$\begin{aligned}
 \{28/(x - 6)\} - \{40/(x + 6)\} &= (90/60) \\
 \text{Or, } (28x + 168 - 40x + 240) / (x^2 - 6^2) &= (3/2) \\
 \text{Or, } 3x^2 - 108 &= 816 - 24x \\
 \text{Or, } 3x^2 + 24x - 924 &= 0 \\
 \text{Or, } x^2 + 8x - 308 &= 0 \\
 \text{Or, } x^2 - 14x + 22x - 308 &= 0 \\
 \text{Or, } x(x - 14) + 22(x - 14) &= 0 \\
 \text{Or, } (x + 22)(x - 14) &= 0 \\
 \text{So, } x &= 14 \text{ (Since, speed cannot be negative)} \\
 \text{Therefore, upstream and downstream speeds of the boat are 8 km/h and 20 km/h, respectively.} \\
 \text{Distance travelled by the boat in 45 minutes in downstream} &= 20 \times (45/60) = 15 \text{ km} \\
 \text{Distance travelled by the boat in 105 minutes in upstream} &= 8 \times (105/60) = 14 \text{ km} \\
 \text{So, total distance travelled} &= 15 + 14 = 29 \text{ km}
 \end{aligned}$$

49. **Answer: (A)**

$$\begin{aligned}
 \text{Compound Interest received} &= 5600 \times \{[1 + (15/100)]^3 - 1\} \\
 &= 5600 \times \{[(115/100)^3 - 1]\} \\
 &= 5600 \times \{(23/20)^3 - 1\} \\
 &= \text{Rs. } 2,916.9
 \end{aligned}$$

Hence, option a.

50. **Answer: (B)**

Smallest number which when divided by 48 or 70 leaves no remainder = L.C.M of 48 and 70  
 L.C.M of 48 and 70 = 1680  
 So, required number =  $1680 + 17 = 1697$   
 Hence, option b.

51. **Answer: (D)**

Any quadrilateral formed by joining the mid points of the 4 sides of a quadrilateral is a parallelogram  
 We know that, in a parallelogram, opposite angles are equal.  
 So,  $5x + y = 5y$   
 Or,  $5x = 4y$   
 So,  $x = (4y/5)$   
 Substituting this value,  
 Sum of all angles of the parallelogram =  $5y + 5y + 10 \times (4y/5) + 12y - 4y$   
 $= 10y + 16y = 26y = 360^\circ$   
 So,  $y = 360 \div 26 = (180/13)$   
 So,  $x = (4/5) \times 180/13 = (144/13)$   
 Hence, option d.

52. **Answer: (B)**

Let the height of the cylinder be 'h' feet  
 Then, volume of the cylinder =  $\pi \times \text{radius}^2 \times \text{height}$   
 $= (22/7) \times 3.5^2 \times \text{height} = 462 \text{ cubic feet}$   
 So, height of the cylinder =  $462 \div 38.5 = 12 \text{ feet}$   
 So, curved surface area of the cylinder =  $2 \times \pi \times \text{radius} \times \text{height} = 2 \times (22/7) \times 3.5 \times 12 = 264 \text{ square feet}$   
 Area of the rectangular ground =  $165 \times 120 = 19800 \text{ square feet}$   
 So, number of revolutions needed by the road roller to level the ground =  $19800 \div 264 = 75$   
 Hence, option b.

53. **Answer: (A)**

Number of toys sold in Bangalore =  $5400 \times (110/360) = 1650$   
 Number of toys sold in Raipur =  $5400 \times 0.2 = 1080$   
 So, required difference =  $1650 - 1080 = 570$   
 Hence, option a.

54. **Answer: (C)**

In forest 'B':  
 Let the sum of number of lions and tigers be 100x  
 So, number of lions in the forest =  $100x \times 0.4 = 40x$   
 So, number of tigers in the forest =  $100x - 40x = 60x$   
 ATQ;  
 $60x - 40x = 112$   
 Or,  $20x = 112$   
 So,  $x = (112/20) = 5.6$



Therefore, number of tigers in the forest =  $60 \times 5.6 = 336$

Similarly, number of tigers in forest 'D' = 112  
So, required average =  $(336 + 112) \div 2 = 224$   
Hence, option c.

55. **Answer: (A)**

Area of isosceles triangle =  $(1/2) \times b \times [\sqrt{a^2 - (b^2/4)}]$   
Where 'a' is length of equal sides and 'b' is length of base.

So,  $(1/2) \times b \times [\sqrt{a^2 - (b^2/4)}] = 20\sqrt{11}$   
Or,  $(1/2) \times 20 \times [\sqrt{a^2 - (b^2/4)}] = 20\sqrt{11}$   
Or,  $[\sqrt{a^2 - (b^2/4)}] = 2\sqrt{11}$

Squaring both sides we get

$$\{a^2 - (b^2/4)\} = 4 \times 11$$

$$\text{Or, } a^2 = 44 + \{(20 \times 20)/4\} = 44 + 100 = 144$$

Or,  $a = 12$  cm {Since, length cannot be negative therefore, we will take the positive root only}

Hence, option a.

56. **Answer: (A)**

Volume of the air in the room = length  $\times$  breadth  $\times$  height = 4320

So, height of the room =  $4320 \div (18 \times 16) = 15$  metres  
Sum of surface area of all 4 side walls =  $(2 \times \text{length} \times \text{height}) + (2 \times \text{breadth} \times \text{height})$

$$= (2 \times 18 \times 15) + (2 \times 16 \times 15) = 540 + 480 = 1020 \text{ m}^2$$

Surface area of the ceiling = length  $\times$  breadth =  $18 \times 16 = 288 \text{ m}^2$

$$\text{So, required sum} = 1020 + 288 = 1308 \text{ m}^2$$

57. **Answer: (C)**

Radius of right circular conical container =  $(\text{diameter}/2) = (12/2) = 6$  cm

$$\text{Volume of the container} = (1/3) \times \pi \times \text{radius}^2 \times \text{height} = (1/3) \times \pi \times 6^2 \times 24 = 288\pi \text{ cm}^3$$

Let the radius of the spherical container with the same volume be 'r' cm

$$\text{Then, volume of the spherical container} = (4/3) \times \pi \times r^3 = 288\pi \text{ cm}^3$$

$$\text{So, } r^3 = 288 \times (3/4) = 216$$

$$\text{So, } r = 6 \text{ cm}$$

Hence, option c.

58. **Answer: (B)**

$$\text{Total number of teachers in school 'A'} = 0.172 \times 12500 = 2150$$

Let number of female teachers in school 'A' = 'x'

$$\text{Number of male teachers in school 'A'} = (x + 250)$$

$$\text{So, } x + x + 250 = 2150$$

$$\text{Or, } 2x = 1900$$

$$\text{So, } x = 950$$

$$\text{So, number of male teachers in school 'A'} = 950 + 250 = 1200$$

$$\text{Number of male teachers in school 'D'} = 0.80 \times 0.324 \times 12500 = 3240$$

$$\text{Required difference} = 3240 - 1200 = 2040$$

Hence, option b.

59. **Answer: (A)**

Let the number of months for which Varsha invested = 'y'

Then, number of months for which Vansh invested = (y + 5)

Ratio of profit shares of Vansh and Varsha respectively =  $\{2800 \times (y + 5)\} : (4800 \times y) = 7 : 9$

$$\text{Or, } (2800y + 14000) : (4800y) = 7 : 9$$

$$\text{Or, } 25200y + 126000 = 33600y$$

$$\text{Or, } 8400y = 126000$$

$$\text{So, } y = 126000 \div 8400 = 15$$

So, number of months for which Vansh invested in the business =  $15 + 5 = 20$  months.

60. **Answer: (D)**

$$\text{Selling price of article 'A'} = 400 \times 1.4 \times 0.75 = ₹420$$

$$\text{Selling price of article 'D'} = 300 \times 1.5 \times 0.76 = ₹342$$

$$\text{So, required difference} = 420 - 342 = ₹78$$

## English Language and Comprehension

61. **Answer: (B)**

The sentence is in an interrogative mood, active voice and simple past tense (DID YOU CLEAN). Follow the rules below to convert a sentence in the interrogative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject (YOU) will change to the object form, which is also YOU, and the object (THE GARDEN) will change into the subject and begin the sentence.

II. Replace the auxiliary verb DID with WAS. Likewise, replace CLEAN with CLEANED. The passive voice construction for the simple past tense in interrogative mood is "was/were + subject + past participle + by + object".

III. Add the conjunction BY before YOU to link the verb with its object.

Option B is the correct answer.

62. **Answer: (B)**

(B) is the right answer. Follow the rules below to change a sentence from active to passive voice:

I. The subject THE COMPUTER will change to the object, and the object A PROBLEM will change into the subject and begin the sentence.

II. The simple past tense construction ENCOUNTERED will change to WAS ENCOUNTERED.

III. Add the preposition 'by' before the subject THE COMPUTER.

63. **Answer: (D)**

D is the right answer. Follow the instructions below to change a sentence from active to passive voice:

I. The subject THE WATER WORKS BOARD will turn into the object, and the object WATER will change into the subject and begin the sentence.

II. Replace IS SUPPLYING with IS BEING SUPPLIED.

III. Add the preposition 'by' before the object THE WATER WORKS BOARD.

64. **Answer: (C)**

The sentence is in an interrogative mood, active voice and simple past tense (did you remove). Follow the rules below to convert a sentence in interrogative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject (YOU) will change to the object of the verb, and the object (YOUR SHOES) will change into the subject.

II. Replace the auxiliary verb DID with WERE. Likewise, replace REMOVE with REMOVED. The passive voice construction for simple past tense in interrogative mood is "was + subject + past participle + by + object".

III. Add the conjunction BY before YOU to link the verb with its object.

Option C is the right answer.

65. **Answer: (C)**

C is the right answer. Follow the instructions below to change a sentence from active to passive voice:

I. The subject THE GARDENER will turn into the object, and the object THE PLANTS will change into the subject and begin the sentence.

II. Replace IS WATERING with ARE WATERED.

III. Add the preposition 'by' before the object THE GARDENER.

66. **Answer: (B)**

The correct answer is option B. IS FORCING is grammatically correct because the sentence is talking about a sentence that is happening or will happen in the future.

- A and B are incorrect because the verbs are in passive voice, while the sentence is in active voice.
67. **Answer: (D)**  
The correct answer is option D.  
Replace the given phrase 'for my experience' with 'in my experience',  
'In my experience' phrase means based on what I know, judging from what has happened to me.  
Thus, option D is the correct answer.
68. **Answer: (C)**  
The correct answer is option C, i.e. ending. The word 'threshold' means the level at which something starts to happen. The word 'ending' means the last part of something. Thus it is clear that 'threshold' and 'ending' are opposite words. Thus, C is the right answer.  
Let's look at the meaning of other words:  
Generating - to produce or create something.  
Floating - not fixed; not living permanently in one place.  
Binding - making it necessary for somebody to do something he/she has promised or to obey a law, etc.
69. **Answer: (B)**  
The literal meaning of the idiom 'fire and brimstone' is 'the punishment that last forever'.  
Therefore option B seems the most relevant. The other alternatives are entirely different.
70. **Answer: (B)**  
To sell ice to eskimos means to persuade people to go against their best interests or to accept something unnecessary or preposterous. Eskimos are indigenous people who live in very cold, snowy regions - they don't need any ice. If someone can sell ice to them, that person can sell anything to anyone. E.g. He is such a good salesman, he can sell ice to eskimos!  
Hence option B is the correct answer.
71. **Answer: (C)**  
The correct answer is option C, i.e. snoozing. The word 'snoozing' means 'a short nap or sleep'. Its given in the first line of the passage that sloths are 'lethargic' in nature. Therefore, the verb 'snoozing' which means 'sleeping' fits perfectly in the context. The other alternatives are irrelevant given the nature of sloths.  
Therefore, the correct answer is option C.
72. **Answer: (B)**  
The correct answer is option B, i.e. canopy (the uppermost branches of trees in a forest).  
Since it is mentioned in the preceding lines of the passage that sloths reside in the canopies, therefore, they would naturally use canopy vines to travel from tree to tree and not any other type of vines.  
Therefore, the correct answer is option B.  
Damsel - a young woman.
73. **Answer: (C)**  
The correct answer is option C, i.e. deforestation.  
The word 'deforestation' means 'cutting down of forests and trees in large tracts of land'. The sentence that is followed by the blank, specifies the 'loss of trees'.  
Therefore, the correct answer is option C.  
Afforestation - the practice of planting trees. Pollution - the act of impurifying the environment. Sewage - waste water and excrement conveyed in sewers.
74. **Answer: (D)**  
The correct answer is option D, i.e. forests. Sloths reside in forests and deforestation are endangering their existence. Hence, every kind of organisation should work towards preserving forests.  
Therefore, the correct answer is option D.
75. **Answer: (C)**  
The correct answer is option C, i.e. languid. The word 'languid' means 'to show a disinclination towards

physical exertion'. It can also be seen as a synonym for sluggish. Since, sloths are slow, lethargic and sluggish, therefore, they will have a languid or sluggish pace.  
Therefore, the correct answer is option C.  
Dangerous - risky. Soft - tender.

76. **Answer: (C)**  
PICK ON (bullied) will fit here as the sentence tells us how the older eaglets bully the younger ones and eat them in case of food shortage. Thus, C is the right answer.  
Pick up - lift. Pick out - select. Pick off - remove.
77. **Answer: (A)**  
(a) is the right answer.. From the given sentences, we understand that it is a conversation between a mother, father and their two daughters. The scrambled parts must be arranged logically to understand their entire conversation. It is important to establish a connection between these parts.  
Line D starts with an affirmative response, without any prior link to the dialogue. The paragraph thus cannot start with D. Thus it is ruled out.  
The paragraph thus begins with B. It is an introduction to the conversation about 'where the girls are going'. A follows B. The response to the question is answered in A. It states 'the girls are going to the market'. C follows A. The mother tells the girls to carry an umbrella as it is going to rain. D follows C. It is the daughter's agreement 'yes we will...' to mother's statement. Thus the correct order is BACD.
78. **Answer: (A)**  
(a) is the correct answer. The sentence begins with the part B, as it established the subject i.e. AI systems. A follows by telling us about the additional creation of an AI system of generating inappropriate content. D follows by telling us about the AI systems that can be used to manipulate people. C follows by concluding that, this media can potentially access sensitive information, raising concerns about data privacy and security. BADC is the final order.
79. **Answer: (C)**  
SQRP is the correct sequence. S begins the paragraph by introducing the topic - extraction of calories. It tells us that the body can extract calories completely from a sugar or glucose solution. Q follows S by telling us that the degree of absorption depends on the composition of the food and on the eaters themselves. RP puts forth the consequence of that - indigestion of fibre; poor digestion of protein and polysaccharides from mushrooms and some algae. Thus, SQRP is the correct sequence, making C the right answer.
80. **Answer: (D)**  
The correct sequence should be SPRQ. The sentence begins with the part S, as it established the subject i.e. pandemic. P follows by telling us about the health insurance plans. R follows by telling us about the betterment of risk profile. Q follows by concluding about the targeted young consumer set. Thus, D is the right answer.
81. **Answer: (D)**  
QSPR is the correct order. Q begins the paragraph by introducing the topic - Mark Zuckerberg's colour blindness test. It tells us how Zuckerberg realised that he was colour blind. S follows Q by adding that he faced difficulty in differentiating between shades of red and green. P follows S by talking about this being the reason behind Meta's blue colour. R concludes the paragraph by summarising it up - changes brought about due to one man's peculiarity. Thus, D is the right answer.
82. **Answer: (B)**

PQRS is the final order. P begins the paragraph by telling us how it is important to self-isolate if one gets sick. Q proceeds by telling us how one must also remember to test after the isolation period is over. RS concludes as a pair: R tells us how risk management is a partnership between individuals, families and other stakeholders. S concludes by telling us how the government is the other partner. Thus, B is the right answer.

83. **Solution: B**

The correct answer is option B. We need an adjective to modify the noun SCANDAL.

'Raged' means feel or express violent uncontrollable anger. (it is a verb)

'Outrageous' means are shockingly bad or excessive. (adjective)

'Tagging' is an incorrect word.

'Outraged' means an extremely strong reaction of anger, shock, or indignation. (verb)

84. **Answer: (A)**

The correct answer is option A. We need to place a past participle form of the verb in the given blank, in order to form the formation of 'HAS+V3'.

Sounded - to give a particular impression when heard or read about; to seem.

Decided - clear; definite.

Mandated - give (someone) authority to act in a certain way.

Gained - to obtain or win something, especially something that you need or want.

85. **Answer: (D)**

We need an adjective to modify the noun CONSEQUENCES. DIRE (extremely serious) will fit here as the sentence talks about the awful consequences of unemployment in the 1930s. Thus, D is the right answer.

Promising - hopeful. DISPUTE (n/v) - argument.

Prosperous - successful; doing well.

86. **Answer: (B)**

We need a noun to be modified by adjectives SIGNIFICANT and POSITIVE. INFLUENCE (impact) will fit here as the sentence tells us how religion tends to have a noteworthy and good impact on people's behaviour concerning moral decisions. Thus, B is the right answer.

Power - strength. Flaw - shortcoming. Attention - focus.

87. **Answer: (A)**

The correct answer is option A. 'Had known' is the correct answer because 'had' is used for the past perfect tense. The past perfect tense is used when we are referring to the first of two events both of which took place in the past.

AM KNOWING is the present continuous tense. KNOW and KNOWS are the simple present tense.

88. **Answer: (B)**

(b) is the right answer. Follow the rules below to change a sentence from direct to indirect speech:

I. Remove the comma and quotation marks.

II. Insert THAT after the reporting verb clause ANAMIKA SAID.

III. The present perfect tense construction HAVE COMPLETED will change to the past perfect tense construction HAD COMPLETED.

IV. The first person pronouns I and MY will change to the third person pronouns SHE and HER respectively.

89. **Answer: (C)**

C is the right answer. Follow the instructions below to convert a sentence from direct to indirect speech:

I. Remove the comma and inverted commas.

II. Add THAT after the reporting speech clause ROHIT SAID.

III. The past continuous tense WAS CALLING will change to the past perfect continuous tense HAD BEEN CALLING.

IV. The first person pronoun I will change to the third person pronoun HE.

90. **Answer: (B)**

Option B is the right answer.

The sentence is in direct speech and in an indicative mood. To convert this sentence to the indirect speech, follow these rules:

I. Remove the comma and the inverted commas.

II. Change the reporting verb SAID to TOLD. The preposition TO after TOLD will be redundant and should be removed. Begin the indirect speech sentence with the reporting speech clause HE TOLD ME.

III. Put THAT between the reporting and reported speeches.

IV. The first person subjective pronoun I and the second person possessive pronoun YOUR will change to the third person subjective HE and the first person possessive pronoun MY respectively.

V. Replace the simple past tense DO NOT WANT with the simple past tense DID NOT WANT.

VI. The verb ATTEND will remain the same as the infinitive construction TO+VERB requires a verb in its base form.

VII. Use the indicative mood syntax: Reporting speech clause (HE TOLD ME) + THAT + Subject (HE) + verb clause (DID NOT WANT TO ATTEND) + Object (MY PARTY).

91. **Answer: (B)**

B is the right answer. Follow the instructions below to convert a sentence from direct to indirect speech:

I. Remove the comma and inverted commas.

II. Add THAT after the reporting speech clause ANJANA SAID.

III. The past continuous tense WAS WAITING will change to the past perfect continuous tense HAD BEEN WAITING.

IV. The first person pronoun I will change to the third person pronoun SHE.

92. **Answer: (B)**

(B) is the right answer. Follow the rules below to change a sentence from direct to indirect speech:

I. Remove the comma and quotation marks.

II. Insert THAT after the reporting verb clause ROHAN SAID.

III. The present perfect tense construction HAVE COMPLETED will change to the past perfect tense construction HAD COMPLETED.

IV. The first person possessive pronoun MY will change to the third person possessive pronoun HIS.

93. **Answer: (C)**

The error is in part C of the sentence. The subject of the sentence is 'mascot'. Since mascot is singular, it needs a singular verb (volunteers). In this sentence, "as well as the hockey players" is a prepositional phrase and therefore not part of the simple subject. According to the Subject-Verb agreement rule, subjects and verbs must AGREE with one another in number (singular or plural). Thus, if a subject is singular, its verb must also be singular; if a subject is plural, its verb must also be plural.

Hence the correct answer is option C. Correct sentence: The mascot, as well as the hockey players, volunteers at the school.

94. **Answer: (A)**

The error lies in part A of the sentence. Replace 'allege' with 'alleged'. As the sentence is in past perfect tense, so it should be framed as - 'had+past participle of verb'. Thus, A is the right answer.

95. **Answer: (C)**



The correct answer is option C. The verb INCREASE should be replaced with the adjective INCREASING as it is being used to modify the noun SCRUTINY.

96. **Answer: (A)**

The correct answer is option A: 'Life experiences'. Refer to the lines: "...literature has provided a gateway to teach the reader about life experiences from even the saddest stories to the most joyful ones that will touch their hearts."

None of the other options is mentioned in the passage.

97. **Answer: (D)**

The correct answer is option D: 'Reading'. Refer to the lines: "Reading and being given the keys to the literature world prepares individuals from an early age to discover the true importance of literature."

The other options are incorrect as per the passage.

98. **Answer: (A)**

The correct answer is option A: 'William Shakespeare'. The above paragraph states that in William Shakespeare's stories, each one is meant to be reflective of human nature - both the good and bad.

The other authors are not mentioned in the passage.

99. **Answer: (A)**

The correct answer is option A: 'Literature'. Refer to the lines: "Literature is the foundation of life."

The other options are not mentioned in the passage.

100. **Answer: (A)**

The correct answer is option A: 'Inanimate objects'. Inanimate objects refer to a thing that is not alive, such as a rock, a chair, a book, etc.

Refer to the lines: "Literature enables people to see through the lenses of others, and sometimes even inanimate objects. Therefore, it becomes a looking glass into the world as others view it."

The other options are not mentioned in the passage.

101. **Answer: (B)**

One who walks in sleep is known as A SOMNILOQUIST. Thus, B is the right answer.

Somnambulist - one who talks in sleep. Soliloquy - act of speaking one's thoughts aloud. Chauffeur - a person employed to drive a car.

102. **Answer: (A)**

The correctly spelled word is POSTHUMOUS (old). Thus, A is the right answer.

Belligerent - extremely harsh. Discrete - cautious; careful. Magnificent - marked by stately grandeur.

103. **Answer: (D)**

The sentence is grammatically correct and free of error. Thus, D is the right answer.

104. **Answer: (A)**

CHIDE means to scold or criticise. CHASTISE is its synonym. Thus, A is the right answer.

Annoy - trouble. Conjecture - speculate. Avert - prevent.

105. **Answer: (C)**

BCDA is the correct sequence. B begins the passage by establishing the subject - HARMFUL EFFECTS OF MERCURY. It tells us how mercury is especially harmful for unborn fetuses. C continues by giving an example - the consumption of one can of white tuna a week by a pregnant mother can be harmful for her unborn baby. D follows by contrasting with the previous statement and telling us how this does not mean that consumers should stop eating fish. A follows by telling us what they should do instead - be more aware of the types of fish they are eating. Thus, C is the right answer.

## General Awareness

106. **Answer: (C)**

The **Jahangir Mahal** was built in **17th century** by Bundela ruler, **Bir Singh Deo**. This palace is the symbol of friendship between the Bir Singh Deo and Jahangir. During the first visit of Jahangir in **Orchha**, this palace was built in his honor.

Another **Jahangir Mahal**, which is located inside the Agra Fort was **built by Akbar** for his son, Jahangir, to serve as his private residence.

107. **Answer: (B)**

The Citizenship Act, 1955, prescribes **three ways** of losing citizenship whether acquired under the Act or prior to it under the Constitution, which are as:

- Renunciation
- Termination
- Deprivation

108. **Answer: (A)**

Article 93 of the Constitution provides for the election of both the **Speaker** and the **Deputy Speaker**.

The constitutional office of the Deputy Speaker of the Lok Sabha is more symbolic of parliamentary democracy than some real authority.

There is no need to resign from their original party though as a Deputy Speaker, they have to remain impartial.

The Deputy Speaker of the Lok Sabha is not subordinate to the speaker of Lok Sabha, He is responsible to the Lok Sabha and the second highest ranking legislative officer of the Lok Sabha.

109. **Answer: (C)**

The National Film Awards is the most prominent film award ceremony in India established in **1954**.

First Award was given to '**Shyamchi Aai**' a Marathi film.

The Hon'ble President of India presents the awards culminating in showcasing of award-winning films for the public.

110. **Answer: (D)**

**Sturt Stony Desert** is located to the east of other three given deserts.

111. **Answer: (A)**

Name of the study	Field of study
Cardiology	Study of heart and its functioning
Cartology	Study of Maps
Cetology	Study of Whales
Climatology	Study of Climate
Conchology	Study of Shells
Cosmetology	Study of Cosmetics

112. **Answer: (C)**

The **Climate Change Performance Index (CCPI) 2023** has been released jointly by three environmental non-governmental organizations viz. Germanwatch, NewClimate Institute and the Climate Action Network (CAN) International.

- None of the countries made it to the first three ranks.
- **Denmark**, with the score of 79.61, has been ranked at **fourth** position. It is followed by Sweden (5<sup>th</sup>) with a score of 73.28 points, and Chile (6<sup>th</sup>) with a score of 69.54.

• The worst performers in the index are Iran, Saudi Arabia, and Kazakhstan.

### India's performance:

**India**, with the score of 67.35 points, has been ranked at **8<sup>th</sup> position** among 63 countries.

In 2022 and 2021, India stood at 10<sup>th</sup> position. In 2020, it stood at 9<sup>th</sup> rank.

113. **Answer: (C)**

**Octopuses** have **three hearts**, which is partly a consequence of having **blue blood**. Their two peripheral hearts pump blood through the gills, where it picks up oxygen. A central heart then circulates the oxygenated blood to the rest of the body to provide energy for organs and muscles.

Octopuses have **9 'brains'**. One central brain is used for overall control.

**Bird and mammal hearts** have **four chambers** (two atria and two ventricles).

A frog, which is an amphibian, has a heart with **three chambers** (one ventricle and two atria).

Fishes hearts have **two chambers** (one atrium and one ventricle).

114. **Answer: (C)**

Karnataka Bank appoints Srikrishnan Harihara Sarma as Managing Director and Chief Executive Officer (MD and CEO).

Sarma has nearly four decades of experience spread across Commercial, Retail, and Transactional Banking, Technology and Payments. He was part of the founding management team at HDFC Bank Ltd for over nine years.

115. **Answer: (B)**

China recently launched the Shenzhou-16 mission. As part of this mission, three astronauts lifted off atop a Long March-2F rocket from the Jiuquan Satellite Launch Centre in the Gobi Desert in northwest China. The astronauts aboard Shenzhou-16 spacecraft will stay in the Tiangong space station for the next five months. This is the country's fifth manned mission to a fully functional space station since 2021.

116. **Answer: (B)**

Capital Market Regulator SEBI has recently reconstituted its intermediary advisory committee. This committee is responsible for providing recommendations on matters concerning changes in legal framework and increasing transparency in systems and procedures of market intermediaries like stock brokers, clearing members and depository participants.

117. **Answer: (C)**

Peter Mundy (1630-34 A.D.) was an **Italian traveler**. He visited during the reign of the Mughal Emperor, Shahjahan.

He gave valuable information about the living standard of the common people in the Mughal Empire.

118. **Answer: (D)**

The Cabinet Mission Plan was a statement made by the Cabinet Mission and the Viceroy, **Lord Wavell**, on May 16, 1946, that contained proposals regarding the constitutional future of India in the wake of Indian political parties and representatives not coming to an agreement.

The members of the Cabinet Mission were:

- Lord Pentthick-Lawrence
- Sir Stafford Cripps
- A.V Alexander

119. **Answer: (B)**

Aaliya Bet is a small uninhabited island located in the district of Bhadbhut and near the town of Bhadbhut in **Gujarat**, India. It is a small island on the Narmada River, with the area close to 3.5 acres.

It serves as a small stopover for fishermen and those who travel along the river in order to discover the wonders of the nature of North India.

120. **Answer: (D)**

Some important dance forms performed in the state of **Maharashtra** are:

- Lavani
- Nakata
- Koli

• Lezim

• Gafa

• Dahikala Dasavtar or Bohada

121. **Answer: (C)**

The **Takin** (*Burdorcas taxicolor*) is the national animal of **Bhutan**. This bovid is also associated with religious history and mythology. It has a thick neck and short muscular legs.

Today, it is a rare animal and its conservation status is 'vulnerable'.

122. **Answer: (D)**

Vishnupad Temple is located at Gaya, Bihar. It was built in the year 1787 A.D. by **Queen Ahilyabai**. It is a beautiful sacred place on the banks of Phalgu River surrounded by rugged rocks on three sides and water on the fourth side.

123. **Answer: (A)**

Bai is a popular dish of **Mizoram**. It is a stew prepared out of an assortment of vegetables. It can be prepared in a variety of ways by combining different kinds of seasonal vegetables.

124. **Answer: (B)**

**Europe** is one of the world's largest peninsulas and the only one with a continental status. It is the world's 5th largest continent by area, covering approximately 9.9 million km<sup>2</sup>.

The four largest peninsulas in Europe are Italian, Balkan, Iberian, and Scandinavian Peninsulas. The **Iberian Peninsula** is the continent's second-largest peninsula after the Scandinavian Peninsula.

125. **Answer: (A)**

**Commissioned Officers: Ranks & Insignia in Indian Army**

Commissioned Officers	Insignia
<b>Field Marshal</b>	National emblem over a crossed sword and baton in a lotus blossom wreath.
<b>General</b>	Crossed sword and baton with star and national emblem.
<b>Lieutenant general</b>	Crossed sword and baton with national emblem above.
<b>Major general</b>	Crossed sword and baton with the star above
<b>Brigadier</b>	Three stars in a triangle and National Emblem above
<b>Colonel</b>	Two stars and the national emblem above
<b>Lieutenant Colonel</b>	One Star and National Emblem above
<b>Major</b>	National Emblem

126. **Answer: (B)**

The Saptak Annual Festival of Music is an annual thirteen-day Indian classical music festival held in Ahmedabad, **Gujarat**.

127. **Answer: (C)**

Ghum railway station of the Darjeeling Himalayan Railway in **West Bengal** is the highest railway station in India. It is situated at an altitude of 2,258 metres while Shimla is at 2086 m. Darjeeling is at 2073 m.

128. **Answer: (B)**

The number of towns has significantly increased from 5161 in 2001 to 7935 in 2011.

129. **Answer: (C)**

The United Nations Environment Programme is responsible for coordinating responses to environmental issues within the United Nations system.

**United Nations Environment Programme (UNEP)**

Founded	5 <sup>th</sup> June, 1972
Headquarter	Nairobi, Kenya

130. **Answer: (A)**

The Lokpriya Gopinath Bordoloi International Airport is also referred to as the Guwahati Airport. It acts as the primary international airport of the North-Eastern States of India, located at Borjhar in the state of Assam.

It provides international airways to Bangkok, Paro, Thailand, etc.

**Computer Knowledge**

131. **Answer: (A)**

- In a larger network, a node is a device or data point.
- A **node** is a connection point, a redistribution point, or a communication endpoint in networking.
- Information is created, received, and communicated by nodes, which then stores or relays it to other nodes.

- For Example, in a computer network, a scanner creates images and delivers them to a computer, whereas a router organises data received from the internet and distributes it to the network's different devices.

132. **Answer: (A)**

**Phishing** is a method of trying to gather personal information using deceptive e-mails and websites. It is a cybercrime in which a target or targets are contacted by email, telephone or text message.

It is done to get sensitive data such as personally identifiable information, banking and credit card details, and passwords.

The information is then used to access important accounts and can result in identity theft and financial loss.

Thus, Phishing is a common type of cyber-attack that everyone should learn about in order to protect themselves.

133. **Answer: (A)**

Microsoft PowerPoint is a powerful slide show presentation program. It is a program that is included in the Microsoft Office suite.

It is used to make presentations for personal and professional purposes.

PowerPoint allows users to zoom in and zoom out of the slides to help focus on specific sections or look at the entire slide as a whole.

The minimum zoom supported by PowerPoint is **10%** and the maximum is **400%**.

134. **Answer: (D)**

E-mail that are deleted from a folder are not completely gone. Deleted e-mail are usually stored for a defined time at the **trash** folder.

- If you delete an e-mail from your inbox, it will initially be put into the Trash folder.

- The e-mail will only be permanently deleted if you delete it in the Trash folder or empty the trash, or if the e-mail's storage time has expired.

- Permanently deleted e-mail cannot be recovered.

135. **Answer: (A)**

HTML tags are like keywords which defines that how web browser will format and display the content.

With the help of tags, a web browser can distinguish between an HTML content and a simple content.

- HTML tags contain three main parts: opening tag, content and closing tag.

- HTML tags are used to create HTML documents and render their properties.

- All HTML tags must be enclosed within < > these brackets.

- Every tag in HTML perform different tasks.

136. **Answer: (C)**

The Data layer is the second layer of the seven-layer OSI model of computer networking.

This layer is the protocol layer that transfers data between adjacent network nodes in a wide area network (WAN) or between nodes on the same local area network (LAN) segment.

- Two types of Data Link layer devices are commonly used on networks: bridges and switches.

- Bridge is used for interconnecting two LANs working on the same protocol.

- A switch is a multiport bridge with a buffer and a design that can boost its efficiency and performance.

137. **Answer: (B)**

Denial of Service is a type of attack that aims to render a server or network resource inaccessible to users.

- It achieves this by inundating the target with traffic or delivering it information that causes the target to crash.

- It attacks a server with a single machine and a single internet connection.

- Attempts are made by the hackers to prevent legitimate users from using the service.

138. **Answer: (C)**

A **default program** is one that launches when you double-click a file.

- If you double-click a.TXT file in Windows and it opens in Notepad that means that Notepad is the default programme for files with the ".txt" ending.

- Because many file types can be opened by multiple programs, default programs are required.

- For each file extension, both Windows and Macintosh computers keep a list of default apps.

- "File associations" refers to the links between programs and file extensions.

139. **Answer: (D)**

A **filename** is a text string that is used to identify a particular file.

- Every file on a computer's hard drive has a filename that helps in locating the file within a folder.

- As a result, each file within a folder must have a unique name, although files in separate folders can have the same name.

- Letters, numerals, and other characters may appear in filenames.

- A file extension, which specifies the file type, is commonly included in filenames.

140. **Answer: (D)**

Ctrl+P : Bring up the control dialog box to begin printing.

Ctrl +Z : Undo last section

Ctrl +F6 : Switch between work books windows

Shift+F3 : Open the excel formula window

Shift+F5 : Bring up search box

141. **Answer: (B)**

A **motherboard** is one of the most essential parts of a computer system.

- The motherboard contains the connectors for attaching additional boards.

- Typically, the motherboard contains the CPU, BIOS, memory, mass storage interfaces, serial and parallel ports, expansion slots.

- It holds all the controllers required to control standard peripheral devices, such as the display screen, keyboard, and disk drive.

- All these chips that reside on the motherboard are known as the motherboard's chipset.

142. **Answer: (D)**



The function keys or F keys are lined across the top of the keyboard and labelled F1 through F12.

- These keys act as shortcuts, performing certain functions, like saving files, printing data, or refreshing a page.
- The function keys are on the function key row, which is above the number key row and is the highest row on a keyboard.
- The **F11 key** allows you to activate full-screen mode in your browser.
- By pressing it again, you will return to the standard view with the menu bar.

143. **Answer: (B)**

**HDMI** stands for High Definition Multimedia Interface.

- It is the most common HD signal for sending both high-definition audio and video over a single cable.
- It is a digital interface for connecting high-definition gadgets like digital cameras, game consoles, and other high-definition devices to PCs and TVs having HDMI ports.
- It can carry both uncompressed and compressed video and audio signals.

144. **Answer: (D)**

**Home key** is a key found on most physical and virtual keyboards and is supported by most operating systems.

- The primary function of the Home key is to return the cursor to the beginning of a line, document, page, screen or worksheet cell based on the position of the cursor.
- Home key helps in navigation of applications or a word processing programs.
- It is most commonly used to make the cursor move to the beginning of the line in a text editing program.
- The Home key has the opposite functionality of the End key.

145. **Answer: (A)**

Windows 7 is an operating system which was released by Microsoft on October 22, 2009. It is the successor to Windows Vista, the previous (sixth) version of Windows.

Windows 7 has a graphical user interface (GUI) that allows you to interact with items on the screen with the help of a keyboard and mouse.

Windows 7, however, has a feature known as "Windows Touch," which allows for touchscreen input and multitouch capability.

146. **Answer: (A)**

The AutoCorrect feature is used to correct typo errors and miss-spelt words automatically according to the words given in the list for the AutoCorrect feature.

- AutoCorrect is a useful tool for applying specific formatting or spelling for certain phrases often used in your text.
- The AutoCorrect feature not only fixes the misspelling, but it also capitalizes the first letter of the sentence.

147. **Answer: (A)**

An Internet Protocol address is a numerical label assigned to each device connected to a computer network that uses the Internet Protocol for communication.

An IP address serves two main functions: host or network interface identification and location addressing.

- Internet Protocol version 4 defines an IP address as a 32-bit number.
- However, because of the growth of the Internet and the depletion of available IPv4 addresses, a new version of IP (IPv6), using 128 bits for the IP address, was standardized in 1998.
- IPv6 deployment has been ongoing since the mid-2000s.

148. **Answer: (D)**

A **laser printer** is a printer that uses a focused beam of light to transfer text and images onto paper.

Laser printers have increased the neatness of print projects, with typical resolutions of 600 dots per inch or higher.

- In a laser print operation, a laser beam fires on a mechanical cylinder known as a photoreceptor.
- This results in a pattern on the photoreceptor that gets coated with toner.
- The toner sticks to the paper in patterns that are dictated by the software used to print.
- Finally, the paper is heated in order to fuse the toner to the paper.

149. **Answer: (A)**

In computing, a **hyperlink**, or simply a link, is a reference to data that the user can follow by clicking or tapping.

- A hyperlink points to a whole document or to a specific element within a document.
- Hypertext is text with hyperlinks. The text that is linked from is called anchor text.
- On webpages, hyperlinks are usually coloured purple or blue and are sometimes underlined.
- A hyperlink can be thought of as an interface that links a source to a target.
- Clicking the hyperlink at the source will navigate to the target.

150. **Answer: (D)**

A **bootstrap** is the process of **starting up a computer**.

- It also refers to the program that initializes the operating system during start-up.
- When you turn on or restart a computer, it automatically loads a sequence of commands that initializes the system, checks for hardware, and loads the operating system.
- This process does not require any input and is therefore considered a bootstrap process.
- Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.



टेस्ट फॉर्म नंबर

अधिकतम अंक : 450  
कुल प्रश्न : 150  
निर्धारित समय : 135 मि.

**उम्मीदवारों को निर्देश****प्रश्नों को हल करने से पहले निम्नलिखित निर्देशों को ध्यान से पढ़ें।**

- (1) इस पुस्तिका में **150 Questions** हैं, जो कि निम्नलिखित तीन Section में शामिल होंगे जिनमें प्रत्येक में दो Module होंगे:
- | Section-I : 60 minutes  | Section-II : 60 minutes  | Section-III : 15 minutes                            |
|---|--|---|
| Module-I: Reasoning and General Intelligence.<br>(30 Questions) | Module-I: English Language and Comprehension<br>(45 Questions) | Module-I: Computer Knowledge Test<br>(20 Questions) |
| Module-II: Mathematical Abilities (30 Questions)                | Module-II: General Awareness<br>(25 Questions)                 |   |
- (2) सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं। उम्मीदवारों के लिए पेपर- I के सभी वर्गों को उत्तीर्ण करना अनिवार्य होगा।
- (3) प्रश्नों को हल करना प्रारम्भ करने से पहले आपको इस पुस्तिका की जांच करनी चाहिए और यह सुनिश्चित करना चाहिए कि इसमें सभी पृष्ठ उपस्थित हैं और कोई पृष्ठ कम या बदला हुआ नहीं है। अगर आपको इस पुस्तिका में कोई दोष मिलता है, तो आपको तुरंत इसे बदलना होगा।
- (4) प्रत्येक प्रश्न में नकारात्मक अंकन होता है क्योंकि प्रत्येक गलत उत्तर के लिए 1/3 अंक काट दिया जाएगा।
- (5) उत्तर केवल पेंसिल या ब्लैकब्लू बॉल पेन/ द्वारा उत्तरपुस्तिका प्रासंगिक प्रश्न संख्या के सम्बंधित गोले को पूरी तरह से ब्लैक करके - दिखाया जाना चाहिए।
- (6) OMR उत्तर पुस्तिका को एक मशीन द्वारा जांचा जायेगा। यदि किसी स्थिति में उपलब्ध जानकारी, आवेदन पत्र में दी गयी जानकारी से अलग पायी गयी, तो आवेदक का आवेदन निरस्त कर दिया जायेगा।
- (7) निरीक्षक की अनुमति मिलने के बाद ही कोई परीक्षा कक्ष छोड़ सकता है।
- (8) उपरोक्त में से किसी भी निर्देश का अनुपालन करने में विफल उम्मीदवार को उपयुक्त कार्यवाहीजुर्माना के लिए उत्तरदायी समझा जा सकता है।
- (9) जितनी जल्दी हो सके उतनी जल्दी और सावधानी से प्रश्नों का उत्तर दें। कुछ सवाल कठिन हो सकते हैं और दूसरे आसान हो सकते हैं। किसी भी प्रश्न पर ज्यादा समय नहीं बिताएं।
- (10) मोबाइल फोन और वायरलेस संचार उपकरण, परीक्षा कक्ष कमरे में पूरी तरह से प्रतिबंधित/हैं। कोई भी आवेदक अपने मोबाइल का या किसी वायरलेस संचार उपकरण को बंद करके भी अपने पास नहीं रख सकता। नियम का उल्लंघन करने पर आवेदक के विरुद्ध उचित कार्यवाही की जायेगी और उसका आवेदन भी निरस्त किया जा सकता है।
- (11) उत्तर-पत्र पर कोई रफ काम नहीं किया जाना चाहिए।
- (12) कोई भी उम्मीदवार परीक्षा पूरा होने से पहले परीक्षा कक्ष नहीं छोड़ सकता है।

परीक्षार्थी का नाम:.....  
दिनांक:..... परीक्षा कोड .....  
अनुक्रमांक:.....

**जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें।**

## Section-I : 60 minutes

## Reasoning and General Intelligence

- चार संख्या-जोड़ें दिए गए हैं, जिनमें से तीन किसी प्रकार से एक जैसे हैं और एक भिन्न है। वह संख्या-जोड़ा चुनें जो भिन्न है।  
(A) 28: 364 (B) 34: 442  
(C) 19: 247 (D) 23: 322
- "देहरादून" का संबंध "उत्तराखंड" से है उसी प्रकार \_\_\_\_ का संबंध "हिमाचल प्रदेश" से है।  
(A) शिमला (B) धर्मशाला  
(C) गैरैन (D) मंडी
- उस विकल्प का चयन करें जो चौथे और छठे पद से उसी तरह संबंधित है जैसे पहला और तीसरा पद दूसरे पद से संबंधित है।  
XAD: GJM: PSV :: QTW: ? : ILO  
(A) ZCF (B) KJI  
(C) ZGH (D) ZBD
- श्रृंखला में गलत शब्द का चयन करें।  
18, 26, 30, 57, 68, 130, 146  
(A) 57 (B) 30  
(C) 68 (D) 130
- अक्षरों के उस संयोजन का चयन करें जो दी गई अक्षर श्रृंखला के रिक्त स्थान में क्रमिक रूप से रखे जाने पर श्रृंखला को पूरा करेगा।  
\_l\_\_nn\_k\_lm\_\_\_\_ll\_\_nokl\_\_n\_\_  
(A) lkmolnmoklnmlno  
(B) klomlnnokkmlnmno  
(C) klmlononknmmmlno  
(D) klmlonnmokkmlnmno
- छह बॉक्स एक के ऊपर एक रखे गए हैं, जिसमें सबसे नीचे वाले बॉक्स की संख्या 1 है, इसके ऊपर वाले बॉक्स की संख्या 2 है और इसी तरह आगे भी। बॉक्स अलग-अलग रंग के हैं- लाल, हरा, पीला, नीला, नारंगी और काला, हालांकि इस विशेष क्रम में नहीं है। तीसरा बॉक्स लाल है। पीले बॉक्स को हरे बॉक्स के दो बॉक्स ऊपर रखा गया है। नीला बॉक्स पीले बॉक्स के बगल में है। काला बॉक्स एक अभाज्य संख्या से अंकित बॉक्स है। नारंगी और नीले बॉक्स के बीच कितने बॉक्स हैं?  
(A) एक (B) तीन  
(C) दो (D) चार
- यदि 19 मार्च, 2017 को रविवार था, तो 19 मार्च, 2027 को सप्ताह का कौन सा दिन होगा?  
(A) रविवार (B) शुक्रवार  
(C) सोमवार (D) मंगलवार
- दिए गए कथनों और निष्कर्षों को ध्यानपूर्वक पढ़ें। यह मानते हुए कि कथन में दी गई जानकारी सत्य है, भले ही यह सामान्य रूप से ज्ञात तथ्यों से भिन्न प्रतीत होती हो, तब

करें कि दिए गए निष्कर्षों में से कौन सा कथनों का तार्किक रूप से अनुसरण करता है।

**कथन:** कुछ हिट फास्ट है।

कोई स्लो फास्ट नहीं है।

कुछ फास्ट क्रिक है।

सभी क्रिक मिस है।

**निष्कर्ष :** I. कुछ मिस फास्ट है।

II. कुछ हिट स्लो नहीं है।

III. कुछ क्रिक स्लो नहीं है।

(A) केवल निष्कर्ष I और II अनुसरण करते हैं

(B) केवल निष्कर्ष I और III अनुसरण करते हैं

(C) केवल निष्कर्ष II और III अनुसरण करते हैं

(D) सभी निष्कर्ष अनुसरण करते हैं

- एक निश्चित कूट भाषा में, 'PENGUIN' को 'UVSLFRS' के रूप में कोडित किया जाता है और 'FATHER' को 'KZYMVW' के रूप में कोडित किया जाता है। उस भाषा में 'EMPEROR' को किस प्रकार कोडित किया जाएगा?  
(A) VRUVXNX (B) VRPVZLZ  
(C) VRUVWLW (D) XCUVALA
- एक निश्चित कूट भाषा में, 'one eight nine four' को 'da, kw, st, qh' के रूप में कोडित किया जाता है, 'four two nine' को 'zw, kw, da' के रूप में कोडित किया जाता है और 'nine one six' को 'st, da, lv' के रूप में कोडित किया जाता है। उसी भाषा में 'six two eight' को किस प्रकार कोडित किया जाएगा?  
(A) zw, da, kw (B) lv, zw, qh  
(C) kw, st, da (D) lv, zw, st
- एक अनुक्रम दिया गया है जिसमें एक पद लुप्त है। दिए गए विकल्पों में से वह सही विकल्प चुनिए जो श्रृंखला को पूरा करे।  
16, 16, 24, 60, 240, 1440, \_\_\_\_  
(A) 11520 (B) 12240  
(C) 10800 (D) 12960
- शब्द 'ADJUSTMENT' में ऐसे कितने अक्षर-जोड़े हैं, जिनमें अग्र और पश्च दोनों दिशाओं में उतने ही वर्ण हैं, जितने अंग्रेजी वर्णमाला क्रम के अनुसार उनके बीच हैं?  
(A) एक (B) दो  
(C) तीन (D) चार
- प्रश्नवाचक चिह्न के स्थान पर क्या आएगा ?  

23	17	26
853	458	?
18	13	14

  
(A) 678 (B) 568  
(C) 872 (D) 789
- एक निश्चित कूट भाषा में, 'CREATE' को '9 24 11 7 26 11' के रूप में कोडित किया जाता है और 'SMILE' को '24 18 14 17 10' के रूप में कोडित किया जाता है। उस भाषा में 'DONKEY' को किस प्रकार कोडित किया जाएगा?



- (A) 10 21 20 19 11 17 (B) 14 15 17 19 23 26  
(C) 10 21 20 17 11 31 (D) 14 15 17 23 25 27

15. यदि 'A' 'गुना' का प्रतिनिधित्व करता है, 'B' 'जोड़' का प्रतिनिधित्व करता है, 'C' 'भाग' का प्रतिनिधित्व करता है और 'D' 'घटाव' का प्रतिनिधित्व करता है, तो निम्नलिखित समीकरण का मान ज्ञात कीजिए।

समीकरण: 123 B 154 C 7 D 12 A 8

- (A) 54 (B) 49  
(C) 68 (D) 52

16. यदि '@' का अर्थ 'जोड़', '%' का अर्थ 'घटाव', '#' का अर्थ 'भाग' और '&' का अर्थ 'गुणा' है, तो निम्नलिखित समीकरण का मान क्या है:

$[(312 \# 13) @ 19] \& 3] \% \{(2 \& 78) \% 46\}$

- (A) 29 (B) 19  
(C) 27 (D) 17

17. निम्नलिखित में से कौन सा शब्द, शब्द के अक्षरों का केवल एक बार प्रयोग करके बनाया जा सकता है?

**VACCINOLOGIST**

**अक्षर I: VOCALISING**

**अक्षर II: NOSTALGIC**

**अक्षर III: CONVICTS**

- (A) अक्षरों का केवल एक बार प्रयोग करके केवल शब्द I बनाया जा सकता है  
(B) अक्षरों का केवल एक बार प्रयोग करके केवल शब्द I और II बनाए जा सकते हैं  
(C) केवल एक बार अक्षरों का प्रयोग करके केवल I और III शब्द बनाए जा सकते हैं  
(D) केवल एक बार अक्षरों का प्रयोग करके सभी शब्द बनाए जा सकते हैं।

18. घड़ी का दर्पण प्रतिबिम्ब 12:18 hours का समय दर्शाता है। घड़ी में दर्शाया गया समय क्या है? इसके अलावा, घड़ी में दिखाए गए समय पर, मिनट की सुई और घंटे की सुई के बीच के कोण की गणना करें, जब मिनट की सुई से दक्षिणावर्त दिशा में लिया जाता है।

- (A) 1:42hrs, 99° (B) 10:42hrs, 135°  
(C) 11:42hrs, 99° (D) 11:42hrs, 132.5°

19. तीन पीढ़ियों के एक परिवार में छह सदस्य L, M, N, O, P और U हैं। U, P का पिता है। O, जिसका विवाह N से हुआ है, वह U का इकलौता पुत्र है। Q, P का भतीजा/भांजा है। L, जो N की माता नहीं है, Q की दादी/नानी है। P, L से किस प्रकार संबंधित है?

- (A) पोता/नाती (B) बेटी  
(C) भतीजा/भांजा (D) माता

20. यदि 'A + B (10 मी)' का अर्थ है 'A, B के 10 मी पश्चिम में है',

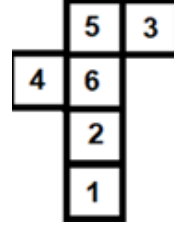
'A × B (10 मी)' का अर्थ है 'A, B के 10 मी पूर्व में है',  
'A ÷ B (10 मी)' का अर्थ है 'A, B के 10 मी दक्षिण में है',  
'A - B (10 मी)' का अर्थ है 'A, B के 10 मी उत्तर में है'।

P - T (17 मी), V × T (15 मी), V ÷ Q (17 मी), Q + U (14 मी), R - U (8 मी), S + R (14 मी), X - S (15 मी), X × W (15 मी)

S और P के मध्य न्यूनतम दूरी कितनी है?

- (A) 13 मी (B) 19 मी  
(C) 15 मी (D) 17 मी

21. दी गई शीट को मोड़कर एक घन बनाया जाता है, इस प्रकार बने घन में, निम्नलिखित में से अक्षरों का कौन-सा युग्म विपरीत फलक पर होगा?



- (A) 4, 2 (B) 6, 3  
(C) 2, 5 (D) 3, 1

22. प्रश्न में एक शब्द को संख्याओं के केवल एक समूह द्वारा दर्शाया गया है जैसा कि विकल्पों में से किसी एक में दिया गया है। विकल्पों में दिए गए संख्याओं के समूह को वर्णमाला के 2 वर्गों द्वारा दर्शाया गया है जैसा कि नीचे दो आव्यूहों में दिया गया है। आव्यूह-I के कॉलम और पंक्ति की संख्या 0-3 से और आव्यूह-II के स्तंभ और पंक्ति की 4-7 से संख्या दी गई है। इस आव्यूह के एक अक्षर को पहले उसकी पंक्ति और उसके बाद उसके कॉलम द्वारा दर्शाया जा सकता है। उदाहरण के लिए 'X' को '21', '67' आदि द्वारा दर्शाया जा सकता है और 'Z' को '31', '54', '77' आदि द्वारा दर्शाया जा सकता है। इसी तरह, आपको शब्द 'GOLDEN' के सेट की पहचान करनी होगी।

**आव्यूह I:**

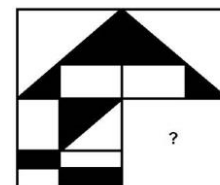
	0	1	2	3
0	G	Q	E	K
1	A	S	J	L
2	C	X	O	W
3	D	Z	J	N

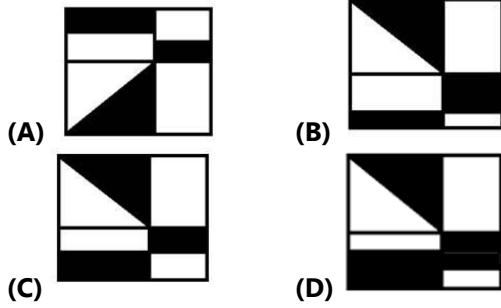
**आव्यूह II:**

	4	5	6	7
4	L	S	E	Z
5	Z	B	G	Q
6	D	V	M	X
7	X	O	N	Z

- (A) 00, 75, 13, 02, 30, 76  
(B) 56, 13, 44, 02, 76, 75  
(C) 00, 22, 13, 30, 23, 12  
(D) 56, 22, 44, 30, 46, 76

23. कौन सी उत्तर आकृति प्रश्न आकृति के पैटर्न को पूरा करेगी?



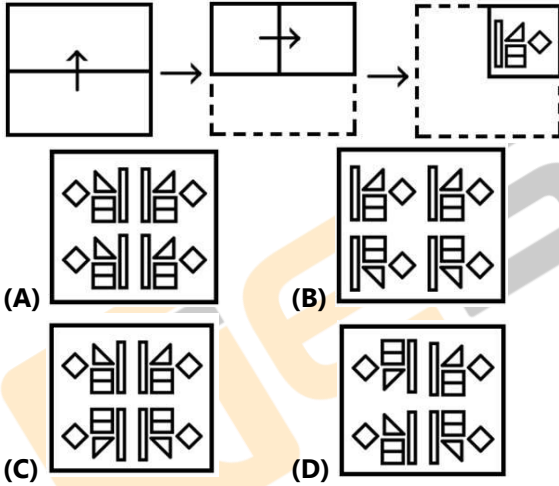


24. दिए गए संयोजन की सही दर्पण छवि को पहचानें, जब दर्पण को नीचे दी गई आकृति के दाईं ओर रखा जाए।

**M N ! @ 2 3 # 4 & n m**

- (A) m n & 4 # 2 3 ! @ n m  
(B) m n & 4 # 2 3 ! @ n m  
(C) m n & 4 # 2 3 ! @ n m  
(D) m n & 4 # 2 3 ! @ n m

25. कागज के एक टुकड़े को मोड़कर काट दिया जाता है जैसा कि नीचे प्रश्न आकृति में दिखाया गया है। खुलने पर यह कैसा दिखाई देगा?



26. सात व्यक्ति, अनु, बिल, नेहा, गिना, हंक, पम और उन एक रेखीय पंक्ति में इस प्रकार खड़े हैं कि सभी उत्तर दिशा की ओर देख रहे हैं। पम, नेहा के दायें से तीसरे स्थान पर बैठा है। अनु गिना के निकट बैठती है। गिना के दायें ओर कोई व्यक्ति नहीं बैठा है। बिल, उन के बायें से दूसरे स्थान पर बैठा है। बिल सबसे अंतिम सीट पर नहीं बैठता है। कितने व्यक्ति हंक के दायें बैठे हैं?

- (A) तीन (B) चार  
(C) पांच (D) छह

27. उस सही विकल्प का चयन करें जो दिए गए शब्दों की व्यवस्था को उस क्रम में इंगित करता है जिसमें वे अंग्रेजी शब्दकोश में दिखाई देते हैं।

- 1- CURBSIDE 2- CURATIVES  
3- CURRENTS 4- CURRENCY  
5- CURRICLES  
(A) 2, 1, 5, 4, 3 (B) 2, 1, 3, 4, 5  
(C) 2, 1, 4, 3, 5 (D) 2, 4, 1, 3, 5

28. 'CHARACTERS' के अक्षरों को पुनर्व्यवस्थित करके हम एक अंग्रेजी अर्थपूर्ण शब्द प्राप्त कर सकते हैं। नीचे दी गई तालिका में दिखाए गए अनुसार प्रत्येक अक्षर को एक अलग संख्या के साथ दर्शाया गया है। शब्द के लिए संख्याओं का संयोजन, जो अर्थपूर्ण नहीं है, \_\_\_\_\_ है।

1	2	3	4	5	6	7	8	9	10
C	H	A	R	A	C	T	E	R	S

- (A) 3 4 6 2 8 9 10 (B) 1 4 5 10 2 8 9  
(C) 10 6 9 3 7 6 2 (D) 6 5 9 10 2 8 4

29. दिए गए समीकरण को संतुलित करने के लिए किन दो अंकों और चिह्नों को आपस में बदला जा सकता है?

$$120 + 168 \div 7 - 204 \times 3 = 1492$$

- (A) 7 और 3;  $\times$  और  $=$   
(B) 168 और 204;  $\div$  और  $\times$   
(C) 7 और 3;  $-$  और  $+$   
(D) दोनों 'B' और 'C'

30. नीचे दिए गए प्रश्न में कुछ कथन और उसके बाद तीन निष्कर्ष I, II और III दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत होते हों। सभी निष्कर्षों को पढ़ें और फिर निर्धारित करें कि दिए गए निष्कर्षों में से कौन सा सर्वज्ञात तथ्यों की उपेक्षा करते हुए निश्चित रूप से दिए गए कथनों का अनुसरण करता है।

**कथन:** कुछ कार बाइक है

कुछ बाइक प्लेन है

केवल कुछ प्लेन रॉकेट है

**निष्कर्ष:** I. कुछ बाइक रॉकेट नहीं है

II. सभी कार रॉकेट हो सकते हैं

III. कुछ प्लेन कार है

- (A) केवल निष्कर्ष II और III अनुसरण करते हैं  
(B) केवल निष्कर्ष II अनुसरण करता है  
(C) केवल निष्कर्ष I और III अनुसरण करते हैं  
(D) इनमें से कोई भी नहीं

### Quantitative Aptitude

31. वह सबसे छोटी संख्या ज्ञात करें, जो 12, 22 और 32 से विभाज्य हो।

- (A) 1096 (B) 948  
(C) 1248 (D) 1056

32. दिए गए समीकरण में प्रश्नवाचक चिह्न (?) के स्थान पर क्या आएगा?

$$\{\sqrt{156.25} + \sqrt{56.25}\} \times (84.25 + 62.25 \div 5 - 37.75 + 32.17 \text{ of } 5) = ? + 45.5^2 - 25.5^2$$

- (A) 2076 (B) 2376  
(C) 2976 (D) 2126

33. चार अलग-अलग फलों P, Q, R और S की मात्रा का अनुपात 2:5:3:4 है। फल P और फल R की औसत मात्रा 45 किग्रा है। फल Q और S की औसत मात्रा 54 किग्रा है, तो फल Q की मात्रा कितनी है?

- (A) 80 किग्रा (B) 54 किग्रा  
(C) 72 किग्रा (D) 60 किग्रा

34. चावल के 52 बैग का औसत वजन 36 किग्रा है। यदि 8 नई बोरी चावल को शामिल कर लिया जाए तो सभी 60 बोरी चावल का औसत वजन 38.2 किग्रा हो जाता है। नए 8 बैग का औसत वजन ज्ञात कीजिए।

(A) 54 किग्रा (B) 46.5 किग्रा  
(C) 52.5 किग्रा (D) 48 किग्रा

35. वर्तमान में, 'A', 'B' और 'C' की औसत आयु 35 वर्ष है, जहाँ 'B' की आयु 'C' की आयु से 22 वर्ष अधिक है। अब से 5 वर्ष पहले, 'A' की आयु उस समय 'C' की आयु से 40% अधिक थी। 'A' और 'C' की वर्तमान आयु के बीच का अंतर ज्ञात कीजिए।

(A) 8 वर्ष (B) 11 वर्ष  
(C) 7 वर्ष (D) 10 वर्ष

36. एक कस्बे की कुल जनसंख्या (पुरुष + महिला) 5850 इस प्रकार है कि कस्बे में पुरुषों की संख्या और महिलाओं की संख्या का अनुपात क्रमशः 15:11 है। यदि कस्बे में अविवाहित पुरुषों की संख्या विवाहित पुरुषों की संख्या से 625 कम है जबकि कस्बे में अविवाहित लोगों की कुल संख्या 2250 है, तो कस्बे में विवाहित महिलाओं की संख्या विवाहित पुरुषों की संख्या का कितना प्रतिशत है?

(A) 80% (B) 20%  
(C) 50% (D) 60%

37. वस्तु 'B' का क्रय मूल्य वस्तु 'A' के क्रय मूल्य से ₹ 120 अधिक है। यदि वस्तु 'A' और 'B' को क्रमशः 25% के लाभ और 20% की हानि पर बेचा जाता है, तो वस्तु 'A' का विक्रय मूल्य वस्तु 'B' की तुलना में ₹ 75 अधिक होगा। वस्तु 'A' का क्रय मूल्य ज्ञात करें।

(A) ₹ 415 (B) ₹ 330  
(C) ₹ 380 (D) ₹ 400

38. 15% की हानि पर बेचने पर एक वस्तु का विक्रय मूल्य ₹ 20% के लाभ पर बेचने पर उसी वस्तु के विक्रय मूल्य से ₹ 168 कम है। यदि वस्तु को उसके क्रय मूल्य से 25% अधिक अंकित किया गया था और फिर ₹ 60 की छूट के बाद बेचा गया था, तो उसका विक्रय मूल्य क्या होगा।

(A) ₹ 600 (B) ₹ 510  
(C) ₹ 540 (D) ₹ 520

39. एक पिता ने ₹ 'X' और ₹ (X + 625) को क्रमशः 12% प्रति वर्ष के साधारण ब्याज पर और 20% प्रति वर्ष चक्रवृद्धि ब्याज (वार्षिक देय) पर निवेश किया। उन्होंने यह निवेश अपने दोनों पुत्र 'A' और 'B' के नाम पर इस प्रकार किया, जो क्रमशः 14 वर्ष और 16 वर्ष के थे, कि दोनों पुत्रों को उनकी 18वीं जन्मदिन पर समान ब्याज प्राप्त होगा। 'X' का मान ज्ञात करें?

(A) 6250 (B) 8500  
(C) 7125 (D) 6875

40. एक 180 लीटर मिश्रण में केवल दूध और पानी क्रमशः 7:8 के अनुपात में हैं। यदि इस मिश्रण में 8 लीटर दूध और 19 लीटर पानी मिलाया जाता है, तो परिणामी मिश्रण में पानी और दूध की मात्रा का अनुपात ज्ञात कीजिए।

(A) 3:4 (B) 4:5

(C) 4:3

(D) 5:4

41. 'A' और 'B' मिलकर एक कार्य को 110 दिनों में पूरा कर सकते हैं। 'B' और 'C' मिलकर उसी कार्य को 90 दिनों में पूरा कर सकते हैं। 'A' और 'C' मिलकर समान कार्य के 50% को 49.5 दिनों में पूरा कर सकते हैं। 20% कार्य को अकेले 'B' द्वारा पूरा करने में लिया गया समय ज्ञात कीजिए।

(A) 44 दिन (B) 39.6 दिन  
(C) 36 दिन (D) 41.2 दिन

42. एक बस कुल 672 किमी की यात्रा करती है जहाँ वह पहली 25% दूरी 40 किमी/घंटा की स्थिर गति से और शेष 50% दूरी 48 किमी/घंटा की स्थिर गति से तय करती है। यदि बस को यात्रा में कुल 13.95 घंटे लगे, तो यात्रा के अंतिम भाग में बस ने किस गति से यात्रा की?

(A) 36 किमी/घंटा (B) 56 किमी/घंटा  
(C) 60 किमी/घंटा (D) 44 किमी/घंटा

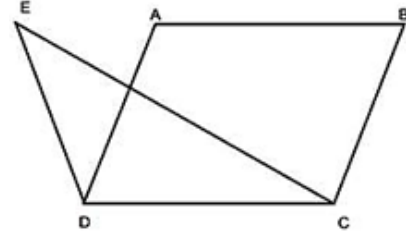
43. यदि  $(x^2 + 3^2) = (2x + 7)$  है तो  $(x^4 - x^3 + x^2 + 8)$  का मान ज्ञात कीजिए?

(A) 12 (B) 6  
(C) 20 (D) 2

44. एक 3.5 मीटर लंबा जिराफ एक पेड़ से 38.5 मीटर की दूरी पर है। यदि जिराफ की आँखों से पेड़ के शीर्ष पर उन्नयन कोण  $45^\circ$  है, तो पेड़ की ऊँचाई और जिराफ की ऊँचाई का अनुपात कितना है?

(A) 9:1 (B) 21:2  
(C) 12:1 (D) 28:3

45. दी गई आकृति में, AB, DC के समानांतर हैं, AB = BC और AD, BC के समानांतर हैं। यदि AC = 9 सेमी और BD = 14 सेमी है तो A और B सरिखी हैं, तो rECD का क्षेत्रफल ज्ञात कीजिए।



(A) 35 सेमी<sup>2</sup> (B) 31.5 सेमी<sup>2</sup>  
(C) 27.5 सेमी<sup>2</sup> (D) 40 सेमी<sup>2</sup>

46. यदि  $5\sin^2 a + 8\cos^2 a = 8$ , and,  $2\tan^2(a + 30)^\circ + \sec^2(2a + 45)^\circ - \sin^2 b = (23/12)$  है तो 'b' का मान ज्ञात कीजिए।

(A)  $60^\circ$  (B)  $90^\circ$   
(C)  $45^\circ$  (D)  $30^\circ$

47. यदि 10, 12, 52 तथा 60 में से प्रत्येक में 'x' जोड़ा जाए तो प्राप्त संख्याएँ समानुपात में होंगी।  $(4x^2 - 16x + 8)$  का मान ज्ञात कीजिए।

(A) 0 (B) 16  
(C) 2 (D) 8



48. 6 किमी/घंटा की गति से बहने वाली एक धारा में, एक नाव को धारा विरुद्ध में 28 किमी की यात्रा करने में लिया गया समय, नाव को धारा अनुप्रवाह में 40 किमी की दूरी तय करने में लगने वाले समय की तुलना में 90 मिनट अधिक है। यदि नाव धारा अनुप्रवाह में 45 मिनट और धारा विरुद्ध में 105 मिनट के लिए यात्रा करती है, तो नाव द्वारा तय की गई कुल दूरी ज्ञात कीजिए।

(A) 29 किमी (B) 34 किमी  
(C) 22 किमी (D) 44 किमी

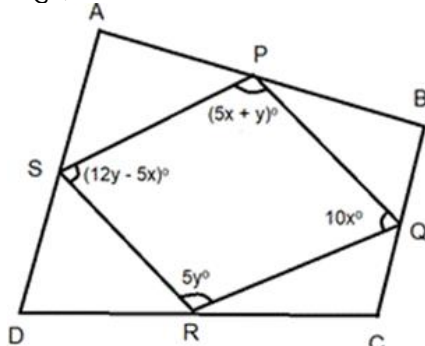
49. राम श्याम को 15% प्रति वर्ष वार्षिक देय चक्रवृद्धि ब्याज पर ₹ 5,600 उधार देता है। 3 वर्ष बाद राम द्वारा प्राप्त ब्याज ज्ञात कीजिए।

(A) ₹ 2,916.9 (B) ₹ 2,616.5  
(C) ₹ 2,716.6 (D) ₹ 2,416.9

50. वह सबसे छोटी संख्या ज्ञात कीजिए जिसमें से 17 घटाने पर प्राप्त संख्या को 48 या 70 से भाग देने पर कोई शेष न बचे।

(A) 1670 (B) 1697  
(C) 1700 (D) 1720

51. दिए गए आंकड़े में, ABCD एक नियमित चतुर्भुज है जहां P, Q, R और S क्रमशः AB, BC, CD और DA के मध्य बिंदु हैं। x का मान ज्ञात करें।

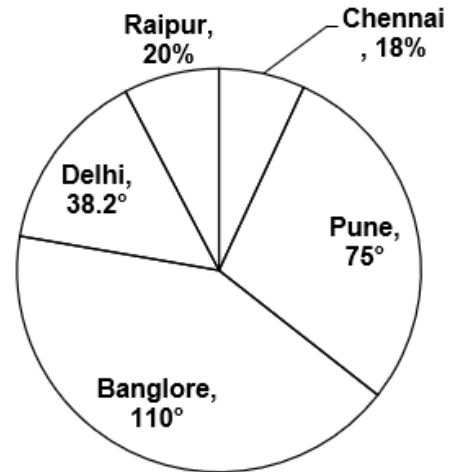


(A)  $12^\circ$  (B)  $(150/13)^\circ$   
(C)  $15^\circ$  (D)  $(144/13)^\circ$

52. एक रोड रोलर एक ठोस सिलेंडर के आकार में है जिसकी त्रिज्या 3.5 फीट और आयतन 462 cubic फीट है। क्रमशः 165 फीट और 120 फीट की लंबाई और चौड़ाई वाले एक आयताकार मैदान को समतल करने के लिए रोलर को कितने चक्कर लगाने की आवश्यकता है? ( $\pi = 22/7$ )

(A) 80 (B) 75  
(C) 55 (D) 60

53. नीचे दिया गया पाई चार्ट सभी 5 शहरों में बेचे गए खिलौनों की कुल संख्या में से 5 अलग-अलग शहरों में बेचे गए खिलौनों की संख्या का डिग्री/प्रतिशत वितरण दर्शाता है, जो 5400 के बराबर है। चार्ट को ध्यान से पढ़ें और निम्नलिखित प्रश्न का उत्तर दें:



बैंगलोर में बेचे गए खिलौनों की संख्या और रायपुर में बेचे गए खिलौनों की संख्या के बीच का अंतर ज्ञात कीजिए।

(A) 570 (B) 520  
(C) 620 (D) 550

54. नीचे दी गई तालिका में 4 अलग-अलग जंगलों में शेरों और बाघों की संख्या के योग के प्रतिशत के रूप में शेरों की संख्या तथा शेरों की संख्या और बाघों की संख्या के बीच का अंतर को दर्शाया गया है। तालिका को ध्यान से पढ़िए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

जंगल	में शेरों और बाघों की संख्या के योग के प्रतिशत	शेरों की संख्या और बाघों की संख्या के बीच का अंतर
A	48%	18
B	40%	112
C	30%	140
D	72%	176

जंगल 'B' और 'D' में बाघों की औसत संख्या ज्ञात कीजिए।

(A) 196 (B) 240  
(C) 224 (D) 208

55. यदि एक समद्विबाहु त्रिभुज का क्षेत्रफल  $20\sqrt{11}$  सेमी<sup>2</sup> है और इसके आधार (असमान भुजा) की लंबाई 20 सेमी है, तो त्रिभुज की बराबर भुजाओं की लंबाई ज्ञात कीजिए।

(A) 12 सेमी (B) 15 सेमी  
(C) 8 सेमी (D) 18 सेमी

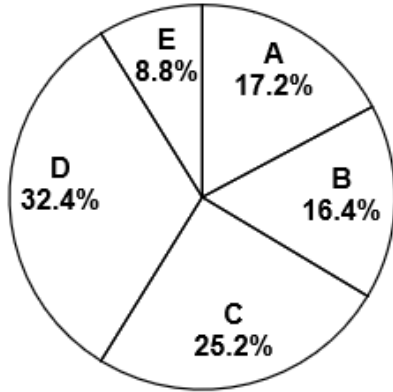
56. एक घनाभाकार कमरे की लंबाई और चौड़ाई क्रमशः 18 मीटर और 16 मीटर है और कमरे में निहित हवा का आयतन 4320 मी<sup>3</sup> है। चार दीवारों और कमरे की छत के पृष्ठ क्षेत्रफल का योग ज्ञात कीजिए।

(A) 1308 मी<sup>2</sup> (B) 1424 मी<sup>2</sup>  
(C) 1180 मी<sup>2</sup> (D) 1240 मी<sup>2</sup>

57. एक खोखला कंटेनर एक लम्ब वृत्तीय शंकु के आकार का है जिसके आधार का व्यास 12 सेमी और ऊँचाई 24 सेमी है। यह कंटेनर पूरी तरह से पानी से भरा हुआ है। एक गोलाकार पात्र की त्रिज्या ज्ञात कीजिए जिसमें ठीक उतनी ही मात्रा में पानी समा सकता है।

(A) 12 सेमी (B) 8 सेमी  
(C) 6 सेमी (D) 4 सेमी

58. नीचे दिए गए पाई चार्ट में दिए गए सभी पांच स्कूलों में शिक्षकों की कुल संख्या (जोकि 12500 है) में से पांच अलग-अलग स्कूलों में शिक्षकों (पुरुष + महिला) के प्रतिशत वितरण को दर्शाया गया है। पाई चार्ट का ध्यानपूर्वक अध्ययन करें और निम्नलिखित प्रश्न का उत्तर दें।

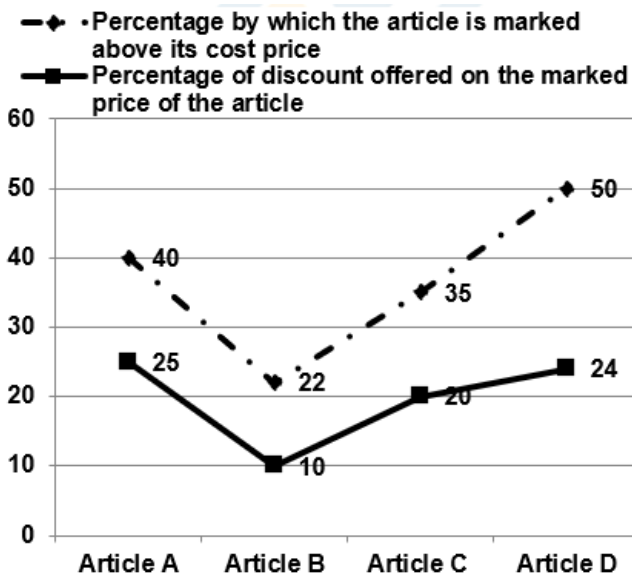


यदि स्कूल 'A' में पुरुष शिक्षकों की संख्या महिला शिक्षकों की संख्या से 250 अधिक है, जबकि स्कूल 'D' में पुरुष शिक्षकों की संख्या उस स्कूल में कुल शिक्षकों की संख्या का 80% है, तो स्कूल 'A' और 'D' में पुरुष शिक्षकों की संख्या के बीच का अंतर ज्ञात कीजिए

- (A) 1720 (B) 2040  
(C) 1920 (D) 2420

59. वंश और वर्षा ने मिलकर क्रमशः ₹2800 और ₹4800 निवेश करके एक व्यवसाय शुरू किया जहां वंश ने वर्षा से 5 अधिक महीनों के लिए निवेश किया। यदि वर्षा और वंश के लाभ हिस्सों का अनुपात क्रमशः 9:7 है, तो उन महीनों की संख्या ज्ञात करें जिसके लिए वंश व्यापार में निवेश करता है।
- (A) 20 माह (B) 22 माह  
(C) 14 माह (D) 16 माह

60. नीचे दिया गया लाइन ग्राफ 4 अलग-अलग वस्तुओं के लिए उस प्रतिशत को दर्शाता है जिसके द्वारा एक वस्तु को उसके क्रय मूल्य से अधिक अंकित किया गया है और अंकित मूल्य पर दी जाने वाली छूट का प्रतिशत भी दर्शाता है। लाइन ग्राफ का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्न का उत्तर दें।



यदि वस्तु 'A' और 'D' का क्रय मूल्य क्रमशः ₹400 और ₹300 है तो उनके विक्रय मूल्यों के बीच का अंतर ज्ञात करें।

- (A) ₹60 (B) ₹120  
(C) ₹96 (D) ₹78

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## Section-II : 60 minutes

## English Language and Comprehension

61. In the following question, a sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
Did you clean the garden yesterday?  
(A) Were the garden cleaned by you yesterday?  
(B) Was the garden cleaned by you yesterday?  
(C) Have you cleaned the garden yesterday?  
(D) The garden was cleaned by you yesterday?
62. A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
The computer encountered a problem while running the program.  
(A) While running the program, the computer encountered a problem.  
(B) A problem was encountered by the computer while running the program.  
(C) A problem has been encountered by the computer while running the program.  
(D) A problem will be encountered by the computer while running the program.
63. A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
The water works board is supplying water on alternate days.  
(A) Water is supplied on alternate days by the water works board.  
(B) Water is being supplied on alternate days by water works board.  
(C) The water works boards has water that is being supplied on alternate days.  
(D) Water is being supplied on alternate days by the water works board.
64. In the following question, a sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
Did you remove your shoes before entering the house?  
(A) Were your shoes being removed by you before entering the house?  
(B) Remove your shoes before entering the house!  
(C) Were your shoes removed by you before entering the house?  
(D) Could you please remove your shoes before entering the house?
65. A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.  
The gardener is watering the plants on the weekends.  
(A) The gardener has been watering the plants on the weekends.  
(B) The plants have been watered by the gardener on the weekends.  
(C) The plants are watered by the gardener on the weekends.  
(D) The plants were watered by the gardener on the weekends.

66. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.  
Europe's energy crisis might been forcing companies to switch strategies or close down.  
(A) is being forced (B) is forcing  
(C) has been forced (D) No improvement
67. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'no substitution required'.  
But for my experience, when you buy off brand products there may be slightly different sizes.  
(A) at my experience  
(B) No substitution required  
(C) as my experience  
(D) in my experience
68. Which of the following is opposite in meaning to the underlined word?  
When the researchers accounted for the relationship between an electron's spin and momentum, they could explain why mercury has such a low threshold temperature (around - 270°C).  
(A) generating (B) floating  
(C) ending (D) binding
69. Select the correct meaning of the given idiom/phrase.  
Fire and brimstone  
(A) Reopen and quarrel (B) To punish  
(C) To forgive (D) To forget
70. Select the correct meaning of the given idiom/phrase.  
Sell ice to eskimos  
(A) To let a troublesome time pass  
(B) To be able to sell anything to anyone  
(C) To avoid an unpleasant situation  
(D) To be unclear

**Directions (71-75):** In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Sloths - the adorable and lethargic animals living in treetops - depend on the health and survival of Central and South American tropical forests. They spend much of their lives in the canopy, \_\_\_\_\_ and remaining hidden from predators. The animals live solitary lives and travel from tree to tree using \_\_\_\_\_ vines. Located in places such as Brazil and Panama, the six species of this strange and wonderful animal need healthy forests to survive. But tropical forests are some of the most vulnerable to \_\_\_\_\_. Loss of trees means animals are forced to live in smaller areas of land that can't support healthy populations. WWF works with communities, governments, companies and other partners to protect \_\_\_\_\_ and the animals that rely on them. Sloths have an extremely low metabolic rate, which means they move at a \_\_\_\_\_, sluggish pace through the trees. On average, sloths travel 41 yards per day - less than half the length of a football field!

71. \_\_\_\_\_ and remaining hidden from predators  
(A) Dancing (B) Singing  
(C) Snoozing (D) Tempting



72. from tree to tree using \_\_\_\_\_ vines.  
(A) Blueberry (B) Canopy  
(C) Grape (D) Damsel
73. most vulnerable to \_\_\_\_\_  
(A) Afforestation (B) Pollution  
(C) Deforestation (D) Sewage
74. other partners to protect \_\_\_\_\_  
(A) Landslides (B) Seas  
(C) Oceans (D) Forests
75. move at a \_\_\_\_\_, sluggish pace  
(A) Rocking (B) Dangerous  
(C) Languid (D) Soft
76. In the following question, a sentence is given with a phrase or idiom in brackets. Select the option given below that can replace the bracketed phrase.  
Older eaglets will (**pick off**) younger ones and if the adults don't bring in enough food the youngest chicks usually get eaten.  
(A) pick up (B) pick out  
(C) pick on (D) No Improvement
77. Given below are four jumbled sentences. Pick one of the given options that fit in their correct order.  
A. "We are going to the market," declared Reetu and Geetu.  
B. "Where are you going?" the father asked.  
C. "Take your umbrella, it is going to rain," the mother said.  
D. "Yes, definitely. We will," replied the two.  
(A) BACD (B) DCAB  
(C) ABDC (D) BCDA
78. Given below are four jumbled sentences. Pick one of the given options that fit in their correct order.  
A. It can also generate offensive or inappropriate content.  
B. Generative AI systems can create content for malicious purposes, such as deep fakes, disinformation, and propaganda.  
C. This media can potentially access sensitive information, raising concerns about data privacy and security.  
D. Nefarious actors may use AI-generated media to manipulate people and influence public opinion.  
(A) BADC (B) BDAC  
(C) DCAB (D) DACB
79. The question below consists of a set of labelled sentences. Out of the four given options, select the most logical order of the sentences to form a coherent paragraph.  
P. And protein and polysaccharides from mushrooms and some algae are poorly digested.  
Q. The degree of absorption depends on the composition of the food and on the eaters themselves.  
R. Fiber is not digested at all.  
S. The body can only fully extract calories from a sugar or glucose solution.  
(A) RSPQ (B) QPRS  
(C) SQRP (D) RPSQ
80. The question below consists of a set of labelled sentences. Out of the four given options, select the most logical order of the sentences to form a coherent paragraph.  
P. Now, health insurance plans also reward you for staying healthy.

Q. Mainly targeted at the younger consumer set, wellness benefits are earned by a policyholder who meets the fitness criteria of the insurer.  
R. So, every time you hit the gym or e-track your steps, your insurer can assess your risk profile better and reward you for performing better.  
S. The pandemic has been a wakeup call for everyone to take stock of their health and immunity.  
(A) QPRS (B) SRPQ  
(C) QRSP (D) SPRQ

81. In each of the questions given below, rearrange the sentences in the correct order, and choose the correct option.  
P. This is one of the reasons why Facebook, and now Meta, are designed in blue.  
Q. In the mid-twenties, Facebook founder Mark Zuckerberg took a colour-blindness test and realised that he was colour blind.  
R. In this way, one man's peculiarity influenced the colour scheme of the world's most visited site, and may have set a whole trend in social media design.  
S. He had trouble distinguishing between shades of red and green.  
(A) RQPS (B) SRPQ  
(C) QRPS (D) QSPR
82. In each of the questions given below, rearrange the sentences in the correct order, and choose the correct option.  
P. If you do get sick, it is vital to self-isolate and not go to work and social events for a minimum of seven days.  
Q. It is also valuable to test at the end of the seven-day isolation period to check that you are no longer positive and potentially infectious to those around you.  
R. Risk management is a partnership between individuals, their families, employers, venue operators, businesses and other organisations.  
S. The other partner is the government, which has a vital role in coordinating and guiding the public health response.  
(A) PSRQ (B) PQRS  
(C) RQPS (D) RPQS
83. Select the most appropriate option to fill in the blank and make a grammatically correct sentence.  
The scandal was \_\_\_\_\_ and it really defamed the reputation of the institution.  
(A) raged (B) Outrageous  
(C) Tagging (D) outraged
84. Select the most appropriate option to fill in the blank and make a grammatically correct sentence.  
The rise in health emergencies, transcending age groups, has \_\_\_\_\_ a caution alarm for youngsters to be prepared with a safety shield.  
(A) sounded (B) decided  
(C) mandated (D) gained
85. In the given sentence, a blank is given indicating that something is missing. From the given four options, choose the one that provides the correct word to be filled in the blank, thereby making the sentence grammatically and contextually correct.  
Unemployment does not have the same \_\_\_\_\_ consequences today as it did in the 1930s when most of the unemployed were primary breadwinners.  
(A) promising (B) dispute  
(C) prosperous (D) dire

86. In the given sentence, a blank is given indicating that something is missing. From the given four options, choose the one that provides the correct word to be filled in the blank, thereby making the sentence grammatically and contextually correct.  
Religion can have a significant and positive \_\_\_\_\_ on people's behaviour when it comes to moral decisions.  
(A) power (B) influence  
(C) flaw (D) attention
87. Select the most appropriate option to fill in the blank and make a grammatically correct sentence.  
If I \_\_\_\_\_ that you were coming over, I would have cancelled my programme.  
(A) had known (B) am knowing  
(C) know (D) knows
88. In the following question, a sentence has been given in the Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the sentence in the Indirect/Direct speech.  
Anamika said, "I have completed writing my novel."  
(A) Anamika said that she has completed writing novel.  
(B) Anamika said that she had completed writing her novel.  
(C) Anamika said that she had completely written her novel.  
(D) Anamika said that she completed novel writing.
89. In the following question a sentence has been given in direct/indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.  
Rohit said, "I was calling Naina when the train started."  
(A) Rohit said that he had called when the train had started.  
(B) Rohit said that he was calling Naina when the train had started.  
(C) Rohit said that he had been calling Naina when the train started.  
(D) Rohit said that he had been calling Naina when the train had started.
90. In the following question, a sentence has been given in Direct/ Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Direct/ Indirect speech.  
"I don't want to attend your party," he said to me.  
(A) He told me that he does not want to attend my party.  
(B) He told me that he did not want to attend my party.  
(C) He told me that he don't want to attend my party.  
(D) He told me that he had not wanted to attend my party.
91. In the following question a sentence has been given in direct/indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.  
Anjana said, "I was waiting for the train when he arrived."  
(A) Anjana said that she had waited for the train when he arrived.  
(B) Anjana said that she had been waiting for the train when he arrived.  
(C) Anjana told that she had was waiting for the train when he had arrived.  
(D) Anjana said that she was waiting for the train when he had been arriving.

92. In the following question, a sentence has been given in the Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the sentence in the Indirect/Direct speech.  
Rohan said, "I have completed writing my thesis."  
(A) Rohan said that he has completed writing thesis.  
(B) Rohan said that he had completed writing his thesis.  
(C) Rohan said that he had completely written his thesis.  
(D) Rohan said that he completed thesis writing.
93. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No error'.  
The mascot, as well (A)/ as the hockey players (B)/, volunteer at the school. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
94. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No error'.  
She had allege that she was asked to keep her gender identity secret and (A)/ that the principal had forced her to resign saying (B)/ students and teachers had found out about her gender. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
95. In the following question, one part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select option D, i.e. 'No error'.  
The verdict in this latest case is a breakthrough (A)/ for the prosecution, which has come (B)/ under increase scrutiny. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D

**Directions [96-100]:** Read the given passage carefully and select the best answer to each question out of the four given alternatives.

Literature is the foundation of life. It places an emphasis on many topics from human tragedies to the ever-popular tales of their search for love. These words come alive in the imagination of the mind, and its ability to comprehend the complexity or simplicity of the text. Literature enables people to see through the lens of others, and sometimes even inanimate objects. Therefore, it becomes a looking glass into the world as others view it. It is a journey that is inscribed on pages and powered by the imagination of the reader. Ultimately, literature has provided a gateway to teach the reader about life experiences from even the saddest stories to the most joyful ones that will touch their hearts. From a very young age, many are exposed to literature in the most stripped down form: picture books and simple texts that are mainly for the sole purpose of teaching the alphabet etc. Reading and being given the keys to the literature world prepares individuals from an early age to discover the true importance of literature; being able to comprehend and understand situations from many perspectives. With the ability to see the world with a pair of fresh eyes, it triggers the reader to reflect on their own lives. Reading something that is relatable to the reader may teach them morals and encourage them

to practise good judgement. This can be proven through public school systems, where the books that are emphasised the most tend to have a moral-teaching purpose behind the story. An example would be William Shakespeare's stories, where each one is meant to be reflective of human nature - both the good and the bad. Consequently, this can promote better judgement of situations, so the reader does not find themselves in the same circumstances as perhaps those in the fiction world. Henceforth, literature is proven to not only be reflective of life, but it can also be used as a guide for the reader to follow and practise good judgement from.

96. What does literature teach its readers?  
(A) Life experiences (B) Bad habits  
(C) Science (D) Drawing
97. What helps to discover the importance of literature?  
(A) Cramming (B) Learning  
(C) Debating (D) Reading
98. Whose stories teach one to be reflective of human nature?  
(A) William Shakespeare (B) John Milton  
(C) Rabindranath Tagore (D) Judith Butler
99. What is the foundation of life?  
(A) Literature (B) Art  
(C) Science (D) Social Science
100. What does literature enable people to see?  
(A) Inanimate objects (B) Reality  
(C) Fiction (D) Non-fiction
101. In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.  
One who walks in sleep  
(A) Somnambulist (B) Somniloquist  
(C) Soliloquy (D) Chauffeur
102. In the following question, spellings of four words are given, out of which only one is correct. Find the correctly spelled word.  
(A) posthumous (B) beligerent  
(C) discret (D) magnificent
103. In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the appropriate option.  
Our research shows that religion (A)/ offers a powerful opportunity (B)/ to inspire environmental action. (C)/ No error (D)  
(A) A (B) B  
(C) C (D) D
104. In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.  
**CHIDE**  
(A) chastise (B) annoy  
(C) conjecture (D) avert
105. In each of the questions given below, rearrange the sentences in the correct order, and choose the correct option.  
A: Consumers must simply be more conscious of the types of fish that they consume.  
B: Mercury, which can accumulate in the body of animals we consume, is a powerful toxin that is

particularly harmful to the brain development of children and unborn fetuses.

C: Health authorities have warned that even the consumption of one can of white tuna a week by a pregnant mother can have damaging effects on her unborn baby.

D: Despite the danger from mercury, most consumers should not abandon fish eating and its heart-healthy benefits.

- (A) ACDB (B) BDAC  
(C) BCDA (D) DCBA

### General Awareness

106. जहांगीर महल का निर्माण 17वीं शताब्दी में बीर सिंह देव ने करवाया था। यह भारत के किस शहर में स्थित है?  
(A) आगरा (B) दिल्ली  
(C) ओरछा (D) लाहौर
107. नागरिकता अधिनियम, 1955, भारत की नागरिकता खोने के कितने तरीके बताता है?  
(A) 2 (B) 3  
(C) 4 (D) 5
108. संविधान के अनुच्छेद 93 में \_\_\_\_\_ से संबंधित प्रावधान हैं।  
(A) लोकसभा के अध्यक्ष और उपाध्यक्ष  
(B) किसी राज्य का महाधिवक्ता  
(C) भारत के महान्यायवादी  
(D) भारत के चुनाव आयुक्त
109. राष्ट्रीय फिल्म पुरस्कार भारत में \_\_\_\_\_ में स्थापित सबसे प्रमुख फिल्म पुरस्कार समारोह है।  
(A) 1924 (B) 1934  
(C) 1954 (D) 1964
110. ऑस्ट्रेलिया का निम्नलिखित में से कौन सा रेगिस्तान अन्य तीन के पूर्व में स्थित है?  
(A) छोटा रेतीला रेगिस्तान (B) गिब्सन रेगिस्तान  
(C) सिम्पसन डेजर्ट (D) स्टर्ट स्टोनी डेजर्ट
111. हृदय और उसकी कार्यप्रणाली का अध्ययन \_\_\_\_\_ के रूप में जाना जाता है।  
(A) कार्डियोलोजी (B) कार्टोलोजी  
(C) केटोलोजी (D) कंकोलोजी
112. Climate Change Performance Index (CCPI) 2023 में 63 देशों में भारत का रैंक कितना है?  
(A) 10<sup>th</sup> (B) 9<sup>th</sup>  
(C) 8<sup>th</sup> (D) 7<sup>th</sup>
113. ऑक्टोपस में कितने दिल होते हैं?  
(A) 1 (B) 2  
(C) 3 (D) 4
114. 'श्रीकृष्णन हरिहर सरमा' को किस बैंक का एमडी और सीईओ नियुक्त किया गया है?  
(A) यस बैंक (B) आईडीबीआई बैंक  
(C) कर्नाटक बैंक (D) एचडीएफसी बैंक



115. किस देश ने 'शेनझोउ-16' मिशन लॉन्च किया है?  
(A) जापान (B) चीन  
(C) दक्षिण कोरिया (D) इज़राइल
116. किस संस्था ने कानूनी ढांचे के लिए मध्यस्थ सलाहकार समिति का पुनर्गठन किया?  
(A) आरबीआई (B) सेबी  
(C) एनपीसीआई (D) आईआरडीएआई
117. पीटर मुंडी एक \_\_\_\_\_ थे।  
(A) फ्रांसीसी यात्री (B) स्पेनिश यात्री  
(C) इटालियन यात्री (D) पुर्तगाली यात्री
118. 1946 के कैबिनेट मिशन का सदस्य कौन नहीं था?  
(A) लॉर्ड पेंथिक-लॉरेंस (B) सर स्टेफोर्ड क्रिप्स  
(C) ए वी अलेक्जेंडर (D) लॉर्ड वैवेल
119. आलिया बेट \_\_\_\_\_ राज्य में स्थित एक छोटा सा द्वीप है।  
(A) महाराष्ट्र (B) गुजरात  
(C) आंध्र प्रदेश (D) तमिलनाडु
120. 'लावणी' पारंपरिक गीत और नृत्य का एक संयोजन है, जो \_\_\_\_\_ में लोकप्रिय है।  
(A) राजस्थान (B) नागालैंड  
(C) बिहार (D) महाराष्ट्र
121. भूटान का राष्ट्रीय पशु कौन सा है?  
(A) मार्को पोलो भेड़ (B) घ्यूमा  
(C) टैकिन (D) बैल
122. विष्णुपद मंदिर गया, बिहार में स्थित है। इसे वर्ष 1787 ई. में \_\_\_\_\_ द्वारा बनाया गया था।  
(A) रानी दुर्गावती (B) रानी अवंतीबाई लोधी  
(C) रानी कर्णावती (D) रानी अहिल्याबाई
123. 'बाई' निम्न में से किस राज्य के व्यंजन का स्वादिष्ट भोजन है?  
(A) मिजोरम (B) नागालैंड  
(C) सिक्किम (D) त्रिपुरा
124. इबेरियन प्रायद्वीप विश्व के निम्नलिखित में से किस महाद्वीप में स्थित है?  
(A) एशिया (B) यूरोप  
(C) अफ्रीका (D) ऑस्ट्रेलिया
125. निम्नलिखित में से कौन सा रैंक भारतीय सेना में सर्वोच्च है?  
(A) जनरल (B) लेफ्टिनेंट जनरल  
(C) मेजर जनरल (D) ब्रिगेडियर
126. संगीत का सप्तक वार्षिक उत्सव भारत के किस राज्य में आयोजित किया जाता है?  
(A) हरियाणा (B) गुजरात  
(C) पंजाब (D) असम

127. 'धूम रेलवे स्टेशन' भारत का सबसे ऊंचा रेलवे स्टेशन है। यह भारत के किस राज्य में स्थित है?  
(A) सिक्किम (B) अरुणाचल प्रदेश  
(C) पश्चिम बंगाल (D) हिमाचल प्रदेश
128. भारत की 2011 की जनगणना के अनुसार, भारत में कस्बों (towns) की संख्या \_\_\_\_\_ है।  
(A) 5161 (B) 7,935  
(C) 10,000 (D) 8,933
129. संयुक्त राष्ट्र पर्यावरण कार्यक्रम किस वर्ष शुरू किया गया था?  
(A) 1945 (B) 1956  
(C) 1972 (D) 1992
130. 'लोकप्रिय गोपीनाथ बोरदोलोई अंतर्राष्ट्रीय हवाई अड्डा' भारत के किस राज्य में स्थित है?  
(A) असम (B) छत्तीसगढ़  
(C) झारखंड (D) मणिपुर

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## Section-III : 15 minutes

## Computer Knowledge

131. डेटा संचार नेटवर्क के भीतर प्रतिच्छेदन बिंदु को \_\_\_\_\_ कहा जाता है।  
(A) Node (B) Block  
(C) Packets (D) Router
132. \_\_\_\_\_ भ्रामक ई-मेल और वेबसाइटों का उपयोग करके व्यक्तिगत जानकारी एकत्र करने का प्रयास करने का एक तरीका है।  
(A) Phishing (B) Hacking  
(C) Cyber Bullying (D) Cyberstalking
133. Microsoft PowerPoint द्वारा समर्थित न्यूनतम और अधिकतम जूम प्रतिशत कितना है?  
(A) 10%, 400% (B) 15%, 200%  
(C) 10%, 500% (D) 20%, 200%
134. इनबॉक्स से हटाए गए मेल निम्न में से किस फ़ोल्डर में सहेजे जाएंगे?  
(A) All Mail (B) Compose  
(C) Draft (D) Trash
135. HTML टैग वे कीवर्ड हैं जो यह परिभाषित करते हैं कि वेब ब्राउज़र किस प्रकार सामग्री को प्रारूपित और प्रदर्शित करेगा। किस प्रकार के कोष्ठक एक HTML टैग बनाते हैं?  
(A) Angular brackets < >  
(B) Square brackets [ ]  
(C) Inverted Comma ""  
(D) Flower brackets { }
136. निम्नलिखित उपकरणों की सूची में OSI मॉडल की डेटा-लिंक परत में किस उपकरण का उपयोग किया जाता है?  
(A) Router (B) Repeater  
(C) Bridges (D) Gateway
137. किसी नेटवर्क या वेबसाइट को अक्षम करने, बंद करने या बाधित करने के लिए डिज़ाइन किया गया साइबर-हमला है:  
(A) Brute force (B) Denial of Service  
(C) Session Hijacking (D) DNS Spoofing
138. जब आप किसी फ़ाइल पर डबल-क्लिक करते हैं, तो एक प्रोग्राम जो फ़ाइल को स्वचालित रूप से खोलता है, उसे \_\_\_\_\_ कहा जाता है।  
(A) Hardwired Program (B) Present Program  
(C) Default Program (D) Direct Program
139. \_\_\_\_\_ एक नाम है जो डायरेक्टरी स्ट्रक्चर में कम्प्यूटर फाइल को विशिष्ट रूप से पहचानने के लिए प्रयोग किया जाता है।  
(A) File Format (B) File ID  
(C) File Division (D) File Name
140. माइक्रोसॉफ्ट एक्सेल में, एक्सेल फॉर्मूला विंडो खोलने के लिए किस शॉर्टकट कुंजी का प्रयोग किया जा सकता है?  
(A) Ctrl + O (B) Ctrl + Z  
(C) Ctrl + F6 (D) Shift + F3
141. \_\_\_\_\_ को एक कंप्यूटर की रीढ़ के रूप में माना जा सकता है जो सिस्टम के हर दूसरे पहलू को नियंत्रित करता है।  
(A) System Board (B) Motherboard  
(C) Main Board (D) Holders
142. इंटरनेट ब्राउज़ करते समय, फुल स्क्रीन व्यू के लिए निम्न में से किस कुंजी का उपयोग किया जाता है?  
(A) F12 (B) F7  
(C) F10 (D) F11
143. हाई डेफिनिशन डिवाइस जैसे डिजिटल कैमरा और गेमिंग कंसोल को जोड़ने के लिए कौन सा पोर्ट विकसित किया गया है?  
(A) USB (B) HDMI  
(C) RCA (D) DVI
144. टाइपिंग कर्सर को उस लाइन की शुरुआत में वापस लाने के लिए मुख्य रूप से किस कुंजी का उपयोग किया जाता है जिस पर आप वर्तमान में टाइप कर रहे हैं?  
(A) Page down key (B) Page up key  
(C) Tab key (D) Home key
145. विंडोज विस्टा के बाद विंडोज का कौन सा संस्करण पेश किया गया था?  
(A) Windows 7 (B) Windows 10  
(C) Windows XP (D) Windows NT
146. सभी MS Office applications में ऑटो करेक्ट सुविधा का कार्य क्या है?  
(A) टाइप करते समय गलत वर्तनी वाले शब्दों को बदलना  
(B) दोहराए गए शब्दों को 'समान' शब्दों से बदलना  
(C) व्याकरणिक रूप से गलत शब्दों को सही शब्दों से बदलना  
(D) चयनित शब्द को 'ऑटो' शब्द से बदलना
147. वर्ष 1998 में मानकीकृत किए गए IP पते के लिए कितने बिट्स का उपयोग करते हुए IP -IPv6 का एक नया संस्करण है?  
(A) 128 (B) 32  
(C) 64 (D) 192
148. \_\_\_\_\_ एक प्रिंटर है जो टेक्स्ट और इमेज को पेपर पर ट्रांसफर करने के लिए फोकस्ड बीम या लाइट का उपयोग करता है।  
(A) Thermal printer (B) Band printer  
(C) Daisy wheel (D) Laser printer
149. निम्नलिखित में से कौन सा टेक्स्ट का एक टुकड़ा है जिसे क्लिक करने पर उपयोगकर्ता वेबपेज पर जाता है?



- (A) Hyperlink (B) URL  
(C) Website (D) Browser

150. बूटस्टैप क्या है?  
(A) कंप्यूटर का समर्थन करने के लिए एक उपकरण  
(B) एक मेमोरी डिवाइस  
(C) एक नेटवर्किंग डिवाइस  
(D) कंप्यूटर को स्टार्ट करने के लिए एक छोटा इनिशियलाइजेशन प्रोग्राम

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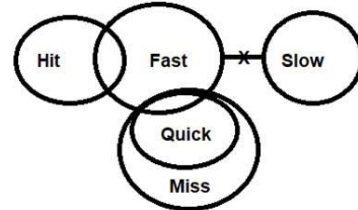


## Reasoning and General Intelligence

1. **Answer: (D)**  
यहाँ अनुसरण किया गया तर्क इस प्रकार है:  
28: 364  
 $28 \times 13 = 364$   
34: 442  
 $34 \times 13 = 442$   
19: 247  
 $19 \times 13 = 247$   
23: 322  
 $23 \times 13 = 299$
2. **Answer: (B)**  
देहरादून उत्तराखंड की शीतकालीन राजधानी है, उसी प्रकार धर्मशाला हिमाचल प्रदेश की शीतकालीन राजधानी है।
3. **Answer: (A)**  
यहाँ अनुसरण किया गया तर्क इस प्रकार है,  
XAD: GJM: PSV  
 $X + 3 = A, A + 3 = D, D + 3 = G, G + 3 = J, J + 3 = M, M + 3 = P, P + 3 = S, S + 3 = V$   
QTW: ? : ILO,  
 $Q + 3 = T, T + 3 = W, W + 3 = Z, Z + 3 = C, C + 3 = F, F + 3 = I, I + 3 = L, L + 3 = O$   
तो, ZCF पाँचवाँ पद होगा।
4. **Answer: (C)**  
यहाँ अपनाया गया पैटर्न इस प्रकार है:  
 $18 + 2 \geq 18 + 8 = 26$   
 $26 + 2^2 = 26 + 4 = 30$   
 $30 + 3 \geq 30 + 27 = 57$   
 $57 + 3^2 = 57 + 9 = 66$   
 $66 + 4 \geq 66 + 64 = 130$   
 $130 + 4^2 = 130 + 16 = 146$
5. **Answer: (D)**  
श्रृंखला नीचे दी गई है:  
k l l m n n o / k l l m n n o / k l l m n n o / k l l m n n o
6. **Answer: (B)**  
अंतिम व्यवस्था इस प्रकार है:
- | बॉक्स नंबर | रंग    |
|------------|--------|
| 6          | पीला   |
| 5          | नीला   |
| 4          | हरा    |
| 3          | लाल    |
| 2          | काला   |
| 1          | नारंगी |
- नारंगी और नीले डिब्बे के बीच तीन डिब्बे हैं।
7. **Answer: (B)**  
गैर-लीप वर्ष में विषम दिनों की संख्या 1 होती है और लीप वर्ष में विषम दिनों की संख्या 2 होती है  
19 मार्च 2017 से 19 मार्च 2027 तक 8 गैर-लीप वर्ष (2018, 2019, 2021, 2022, 2023, 2025, 2026 और 2027) और 2 लीप वर्ष 2020 और 2024 हैं।  
तो, विषम दिनों की कुल संख्या होगी:  
19 मार्च 2017 से 18 मार्च 2018 तक: 1  
19 मार्च 2018 से 18 मार्च 2019 तक: 1

19 मार्च 2019 से 18 मार्च 2020 तक: 2  
19 मार्च 2020 से 18 मार्च 2021 तक: 1  
19 मार्च 2021 से 18 मार्च 2022 तक: 1  
19 मार्च 2022 से 18 मार्च 2023 तक: 1  
19 मार्च 2023 से 18 मार्च 2024 तक: 2  
19 मार्च 2024 से 18 मार्च 2025 तक: 1  
19 मार्च 2025 से 18 मार्च 2026 तक: 1  
19 मार्च 2026 से 18 मार्च 2027 तक: 1  
अतः, विषम दिनों की कुल संख्या 12 है।  
विषम दिन =  $(12/7)$  का शेषफल = 5 विषम दिन (चूँकि शेष संख्या दिनों की अंतिम विषम संख्या है)  
तो, 19 मार्च, 2027 को शुक्रवार होगा (रविवार + 5 विषम दिन = शुक्रवार)।

8. **Answer: (D)**  
दिए गए कथनों से निम्नलिखित वेन आरेख बनाया जा सकता है,



उपरोक्त आरेख से निष्कर्ष। अनुसरण करता है।  
हिट का जो भाग तेज़ है वह कभी धीमा नहीं हो सकता, इसलिए निष्कर्ष II अनुसरण करता है।  
क्विक का जो भाग तेज़ है वह कभी धीमा नहीं हो सकता, इसलिए निष्कर्ष III अनुसरण करता है।  
अतः, सभी निष्कर्ष अनुसरण करते हैं।

9. **Answer: (C)**  
यहाँ अनुसरण किया गया तर्क इस प्रकार है,  
जब अक्षरों को विपरीत वर्णमाला क्रम में लिखा जाता है, तो प्रत्येक स्वर को समान स्थानीय मान वाले अक्षर से बदल दिया जाता है। अंग्रेजी वर्णमाला क्रम के अनुसार प्रत्येक व्यंजन को उसके 5वें अनुवर्ती अक्षर से बदल दिया जाता है।

PENGUIN, के लिए,

P	E	N	G	U	I	N
U	V	S	L	F	R	S

तो, 'PENGUIN' का कोड 'UVSLFRS' है।

FATHER, के लिए,

F	A	T	H	E	R
K	Z	Y	M	V	W

अतः, 'FATHER' का कूट 'KZYMVW' है।

EMPEROR, के लिए,

E	M	P	E	R	O	R
V	R	U	V	W	L	W

तो, 'EMPEROR' के लिए कूट 'VRUVWLW' है।

10. **Answer: (B)**  
I. 'one आठ नौ चार' को 'da, kw, st, qh' के रूप में कोडित किया गया है  
II. 'फोर टू नाइन' को 'zw, kw, da' के रूप में कोडित किया गया है

III. 'नाइन वन सिक्स' को 'st, da, lv' के रूप में कोडित किया गया है  
 कथन I, II और III से, 'नौ' को 'da' के रूप में कूटबद्ध किया गया है।  
 कथन I और II से, 'चार' को 'kw' के रूप में कूटबद्ध किया गया है।  
 कथन I और III से, 'one' को 'st' के रूप में कोडित किया गया है।  
 केवल कथन I से, 'आठ' को 'qh' के रूप में कूटबद्ध किया गया है।  
 अकेले कथन II से, 'two' को 'zw' के रूप में कोडित किया गया है।  
 अकेले कथन III से, 'छह' को 'lv' के रूप में कोडित किया गया है।

तो, शब्द और उनके संबंधित कोड इस प्रकार हैं:

Word	nine	four	one	eight	two	six
Code	da	kw	st	qh	zw	lv

तो, 'six two eight' को 'lv, zw, qh' के रूप में कोडित किया गया है।

11. **Answer: (B)**

16	16	24	60	240	1440	12240
x1	x1.5	x2.5	x4	x6	x8.5	

'12240' दी गई श्रृंखला को पूरा करेगा।

16, 16, 24, 60, 240, 1440, 12240

12. **Answer: (B)**

'ADJUSTMENT' शब्द में दो जोड़े (ST and JE) हैं जिनमें आगे और पीछे दोनों दिशाओं में उतने ही अक्षर हैं, जितने उनके बीच अंग्रेजी वर्णमाला के क्रम के अनुसार हैं।

13. **Answer: (C)**

यहाँ अनुसरण किया गया तर्क इस प्रकार है:

प्रत्येक कॉलम में,

पहली संख्या का वर्ग + तीसरी संख्या का वर्ग = दूसरी संख्या।

कॉलम 1 में [23, 853, 18]

$$[23]^2 + [18]^2 = 529 + 324 = 853$$

कॉलम 2 में [17, 458, 13]

$$[17]^2 + [13]^2 = 289 + 169 = 458$$

इसी प्रकार,

कॉलम 3 में [26, ?, 14]

$$[26]^2 + [14]^2 = 676 + 196 = 872$$

14. **Answer: (C)**

यहाँ अनुसरण किया गया तर्क इस प्रकार है:

प्रत्येक शब्द में अक्षरों की संख्या को अंग्रेजी वर्णमाला क्रम के अनुसार उस शब्द के प्रत्येक अक्षर के स्थानीय मान में जोड़ा जाता है।

CREATE के लिए,

CREATE शब्द में 6 अक्षर हैं।

C	R	E	A	T	E
3	18	5	1	20	5
+6	+6	+6	+6	+6	+6
9	24	11	7	26	11

तो, 'CREATE' का कोड '9 24 11 7 26 11' है

'SMILE' के लिए,

S	M	I	L	E
19	13	9	12	5

+5	+5	+5	+5	+5
24	18	14	17	10

तो, 'SMILE' का कोड '24 18 14 17 10' है  
 'DONKEY' के लिए,

D	O	N	K	E	Y
4	15	14	11	5	25
+6	+6	+6	+6	+6	+6
10	21	20	17	11	31

तो, 'DONKEY' का कोड '10 21 20 17 11 31' है।

15.

**Answer: (B)**

123 B 154 C 7 D 12 A 8

अक्षरों को गणितीय चिन्हों से बदलने पर,

$$123 + 154 \div 7 - 12 \times 8$$

$$= 123 + 22 - 96$$

$$= 145 - 96$$

$$= 49$$

16.

**Answer: (B)**

$$[(312 \div 13) \times 19] \times 3 - \{(2 \times 78) - 46\}$$

अक्षरों को गणितीय चिन्हों से बदलने पर,

$$[(312 \div 13) \times 19] \times 3 - \{(2 \times 78) - 46\}$$

$$= [(312 \div 13) \times 19] \times 3 - \{(2 \times 78) - 46\}$$

$$= [43 \times 3] - 110$$

$$= 129 - 110$$

$$= 19$$

17.

**Answer: (D)**

शब्द I: यह शब्द केवल एक बार अक्षरों का उपयोग करके बनाया जा सकता है।

शब्द II: यह शब्द केवल एक बार अक्षरों का उपयोग करके बनाया जा सकता है।

शब्द III: यह शब्द केवल एक बार अक्षरों का उपयोग करके बनाया जा सकता है।

18.

**Answer: (C)**

यहाँ अनुसरण किया गया तर्क इस प्रकार है,

1) यदि समय 1 से 11 के बीच है तो वास्तविक समय ज्ञात करने के लिए दिए गए समय को 11:60 से घटा दिया जाता है।

2) यदि समय 11 और 1 के बीच है तो वास्तविक समय ज्ञात करने के लिए दिए गए समय को 23:60 से घटा दिया जाता है।

चूँकि, समय 1 और 11 के बीच है, इसलिए, दिया गया समय 11:60 से घटा दिया जाता है।

$$23:60 - 12:18 = 11:42$$

तो, घड़ी में दिखाया गया समय 11:42 बजे है।

11:42 बजे घंटे की सुई और मिनट की सुई के बीच के कोण के लिए,

यहाँ अनुसरण किया गया तर्क इस प्रकार है,

घंटे की सुई एक घंटे में  $30^\circ$  का कोण तथा एक मिनट में  $0.5^\circ$  का कोण बनाती है।

इसी प्रकार मिनट की सुई एक मिनट में  $6^\circ$  का कोण बनाती है।

$$\text{अतः, } 11:42 \text{ बजे घंटे की सुई द्वारा बनाया गया कोण} = (11 \times 30 + 0.5 \times 42) = 330 + 21 = 351^\circ$$

इसी प्रकार, 11:42 बजे मिनट की सुई द्वारा बनाया गया कोण  $= 42 \times 6 = 252^\circ$

तो, 11:42 बजे घंटे और मिनट की सुई के बीच का कोण =  $351^\circ - 252^\circ = 99^\circ$   
इस प्रकार घड़ी में दिखाया गया समय 11:42 बजे है और मिनट और घंटे की सुई के बीच का कोण  $99^\circ$  है।

19. **Answer: (B)**

सुराग:

- 1) U, P का पिता है।
- 2) O, जिसका विवाह N से हुआ है, U का इकलौता पुत्र है।
- 3) Q, P का भतीजा है।
- 4) L, जो N की माँ नहीं है, Q की दादी है।

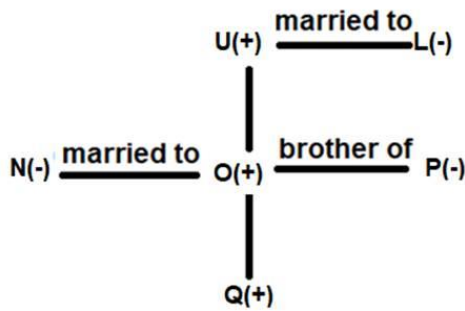
अनुमान:

सुराग 1 और सुराग 2 से, O, N का पति है। साथ ही, P, U की बेटी है।

सुराग 3 से, Q, O का पुत्र है।

सुराग 4 से, L, U की पत्नी है।

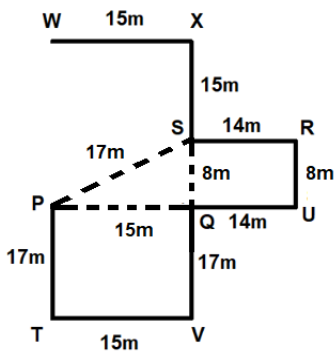
दिए गए कथनों से निम्नलिखित पारिवारिक वृक्ष निकाला जा सकता है,



इस प्रकार, P, L की बेटी है।

20. **Answer: (D)**

P - T (17मी) का अर्थ है कि P, T के 17मी उत्तर में है।  
V × T (15 मी) का अर्थ है कि V, T से 15 मी पूर्व में है।  
V ÷ Q (17मी) का अर्थ है कि V, Q से 17मी दक्षिण में है।  
Q + U (14मी) का अर्थ है कि Q, U के 14मी पश्चिम में है।  
R - U (8मी) का अर्थ है कि R, U से 8मी उत्तर में है।  
S + R (14मी) का अर्थ है कि S, R के 14मी पश्चिम में है।  
X - S (15मी) का अर्थ है कि X, S के 15मी उत्तर में है।  
X × W (15मी) का अर्थ है कि X, W के 15मी पूर्व में है।  
अंतिम आंकड़ा नीचे दिया गया है:



21. **Answer: (C)**

निम्नलिखित अक्षरों के जोड़े घन के विपरीत पक्षों पर दिखाई देंगे,  
(5, 2 के विपरीत है)।  
(6, 1 के विपरीत है)।  
(4, 3 के विपरीत है)।

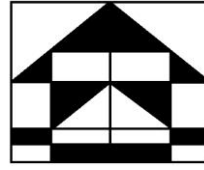
22. **Answer: (D)**

चूँकि अक्षर के अंकों को क्रमशः पंक्तियों और स्तंभों द्वारा दर्शाया जाता है:

G	O	L	D	E	N
00,	22,	13,	30,	02,	33,
56	75	44	64	46	76

तो, '56, 22, 44, 30, 46, 76' 'गोल्डन' शब्द का सही सेट है।

23. **Answer: (C)**



24. **Answer: (A)**

दिए गए संयोजन की दर्पण छवि इस प्रकार है:

M N ! @ 2 3 # 4 & n m m n & # 4 5 6 ! M

25. **Answer: (C)**

कागज का टुकड़ा खोलने पर वह इस प्रकार दिखाई देगा,



26. **Answer: (C)**

सुराग:

- 1) अनु जीना के बगल में बैठी है।
- 2) कोई भी व्यक्ति जीना के दाईं ओर नहीं बैठा है।
- 3) पाम, नेहा के दायें से तीसरे स्थान पर बैठी है।
- 4) बिल डैन के बायीं ओर दूसरे स्थान पर बैठा है।
- 5) बिल अंतिम छोर वाली सीट पर नहीं बैठा है।

अनुमान:

सुराग 1 और सुराग 2 से, जीना सबसे दाईं ओर वाली सीट पर बैठती है और इस प्रकार अनु, जीना के ठीक बाईं ओर बैठती है।

सुराग 3 से, या तो पाम अनु के ठीक बायीं ओर बैठा है या पाम अनु के बायीं ओर दूसरे स्थान पर बैठा है।

केस 1: पाम, अनु के ठीक बायीं ओर बैठा है

सुराग 4 से, डैन, नेहा के ठीक दाईं बैठा है और इस प्रकार बिल, डैन के बायीं ओर दूसरे स्थान पर बैठा है।

बिल	नेहा	डैन	पाम	अनु	जीना
-----	------	-----	-----	-----	------

हालाँकि यह सुराग 5 का उल्लंघन करता है। अतः यह मामला खारिज किया जा सकता है।

केस 2: पाम, अनु के बायीं ओर दूसरे स्थान पर बैठा है

सुराग 4 से, डैन, पाम के ठीक दाईं बैठा है और इस प्रकार बिल, डैन के बाईं ओर दूसरे स्थान पर बैठा है।

एकमात्र व्यक्ति हैक शेष है, जो बिल के ठीक बाईं ओर बैठा है।

नेहा	हैक	बिल	पाम	डैन	अनु	जीना
------	-----	-----	-----	-----	-----	------

इस प्रकार, हैक के दाईं ओर पांच व्यक्ति बैठे हैं।

27. **Answer: (C)**

दिए गए शब्दों की उस क्रम में सही व्यवस्था है जिस क्रम में वे अंग्रेजी शब्दकोश में दिखाई देते हैं:

2- CURATIVES, 1- CURBSIDE, 4- CURRENCY, 3- CURRENT, 5- CURRICLES

"2, 1, 4, 3, 5" सही व्यवस्था है।

28. **Answer: (D)**

दिया गया:

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----



C	H	A	R	A	C	T	E	R	S
---	---	---	---	---	---	---	---	---	---

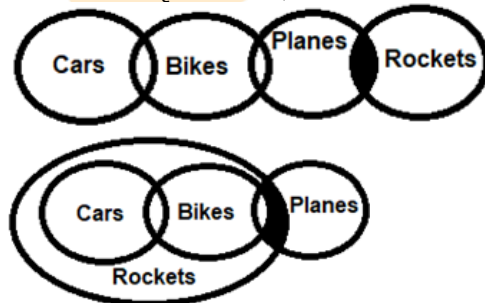
विकल्प [a] से, हमें मिलता है,  
ARCHERS एक सार्थक शब्द है।  
विकल्प [b] से, हमें मिलता है,  
CRASHER एक सार्थक शब्द है।  
विकल्प [c] से, हमें मिलता है,  
SCRATCH एक सार्थक शब्द है।  
विकल्प [d] से, हमें मिलता है,  
CARSHER एक सार्थक शब्द नहीं है।  
'6 5 9 10 2 8 4' शब्द के लिए संख्याओं का संयोजन है,  
जो अर्थपूर्ण शब्द नहीं है।

29. **Answer: (D)**

$120 + 168 \div 7 - 204 \times 3 = 1492$   
विकल्प [a] में दिए गए अंकों और चिह्नों को आपस में बदलने पर, हमें यह मिलता है:  
 $120 + 168 \div 3 - 204 = 7 \times 1492$   
 $120 + 56 - 204 = 10444$   
 $176 - 204 = 10444$   
 $-28 \neq 10444$   
विकल्प [b] में दिए गए अंकों और चिह्नों को आपस में बदलने पर, हमें यह मिलता है:  
 $120 + 204 \times 7 - 168 \div 3 = 1492$   
 $120 + 204 \times 7 - 56 = 1492$   
 $120 + 1428 - 56 = 1492$   
 $1548 - 56 = 1492$   
 $1492 = 1492$   
विकल्प [c] में दिए गए अंकों और चिह्नों को आपस में बदलने पर, हमें यह मिलता है:  
 $120 - 168 \div 3 + 204 \times 7 = 1492$   
 $120 - 56 + 204 \times 7 = 1492$   
 $120 - 56 + 1428 = 1492$   
 $1548 - 56 = 1492$   
 $1492 = 1492$   
इसलिए, विकल्प b और विकल्प c में दिए गए अंकों और चिह्नों को आपस में बदलने के बाद, हम एक संतुलन समीकरण प्राप्त कर सकते हैं।

30. **Answer: (B)**

निम्नलिखित आकृतियाँ बनाई जा सकती हैं:



1. कुछ बाइक रॉकेट नहीं हैं: इसका पालन नहीं होता है (चूँकि, बाइक और रॉकेट के बीच कोई सीधा संबंध नहीं है। इसलिए, कोई निश्चित निष्कर्ष नहीं निकलता है)  
द्वितीय. सभी कारें रॉकेट हो सकती हैं: अनुसरण करता है (चूँकि, कारों और रॉकेट के बीच कोई सीधा संबंध नहीं है। इसलिए, सभी संभावित निष्कर्ष अनुसरण करते हैं)  
तृतीय. कुछ विमान कारें हैं: अनुसरण नहीं करता है (चूँकि विमान और कारों के बीच कोई सीधा संबंध नहीं है। इसलिए, कोई निश्चित निष्कर्ष अनुसरण नहीं करता है)

## Quantitative Aptitude

31. **Answer: (D)**

12, 22 और 32 से विभाज्य सबसे छोटी संख्या 12, 22 और 32 का L.C.M है।  
आवश्यक संख्या = 1056

32. **Answer: (C)**

$\{\sqrt{156.25} + \sqrt{56.25}\} \times (84.25 + 62.25 \div 5 - 37.75 + 32.17 \text{ of } 5) = ? + 45.5^2 - 25.5^2$   
 $\{12.5 + 7.5\} \times (84.25 + 12.45 - 37.75 + 160.85) = ? + (45.5 - 25.5) (45.5 + 25.5)$   
 $20 \times 219.8 = ? + 71 \times 20$   
 $? + 1420 = 4396$   
 $? = 4396 - 1420 = 2976$

33. **Answer: (D)**

माना फल P, Q, R और S की मात्रा क्रमशः 2x, 5x, 3x और 4x है।  
फलों की औसत मात्रा Q और S = 54 किग्रा  
Q और S फलों की कुल मात्रा =  $54 \times 2 = 108$  किग्रा  
यहाँ Q = 5x और S = 4x  
 $5x + 4x = 108 \text{ kg}$   
 $9x = 108 \text{ kg}$   
 $x = 108 \div 9$   
 $x = 12 \text{ kg}$   
अतः, फल Q की मात्रा = 5x  
 $= 5 \times 12 = 60$  किग्रा

34. **Answer: (C)**

52 बोरी चावल का कुल वजन =  $52 \times 36 = 1872$  किलोग्राम  
60 बोरी चावल का कुल वजन =  $60 \times 38.2 = 2292$  किलोग्राम  
चावल की 8 नई बोरीयों का कुल वजन =  $2292 - 1872 = 420$  किलोग्राम  
नए 8 बैगों का औसत वजन =  $(420/8) = 52.5$  किलोग्राम

35. **Answer: (A)**

A, B और C की वर्तमान आयु का योग =  $35 \times 3 = 105$  वर्ष  
माना 'C' की वर्तमान आयु = 'x' वर्ष  
तो, B की वर्तमान आयु =  $(x + 22)$  वर्ष  
A की वर्तमान आयु =  $105 - (x + x + 22) = (83 - 2x)$  वर्ष  
अब से 5 वर्ष पहले, 'A' की आयु =  $83 - 2x - 5 = (78 - 2x)$  वर्ष  
अब से 5 वर्ष पहले, 'C' की आयु =  $(x - 5)$  वर्ष  
प्रश्न के अनुसार,  
 $(78 - 2x) = (x - 5) \times 1.4 = (1.4x - 7)$   
या,  $78 + 7 = 1.4x + 2x$   
अतः,  $x = 85 \div 3.4 = 25$   
A की वर्तमान आयु =  $83 - 2 \times 25 = 33$  वर्ष  
तो, A और C की उम्र के बीच का अंतर =  $33 - 25 = 8$  वर्ष

36. **Answer: (A)**

कस्बे में पुरुषों की संख्या =  $(15/26) \times 5850 = 3375$   
कस्बे में महिलाओं की संख्या =  $5850 - 3375 = 2475$   
माना शहर में विवाहित पुरुषों की संख्या = 'x'  
कस्बे में अविवाहित पुरुषों की संख्या =  $(x - 615)$   
तो,  $x + x - 625 = 3375$

या,  $2x = 4000$   
 अथवा,  $x = 2000$   
 अतः, शहर में विवाहित पुरुषों की संख्या = 2000  
 और, शहर में अविवाहित पुरुषों की संख्या =  $2000 - 615 = 1375$   
 कस्बे में अविवाहित महिलाओं की संख्या =  $2250 - 1375 = 875$   
 कस्बे में विवाहित महिलाओं की संख्या =  $2475 - 875 = 1600$   
 आवश्यक प्रतिशत =  $(1600/2000) \times 100 = 80\%$

37. **Answer: (C)**

माना वस्तु 'A' का लागत मूल्य = ₹'X'  
 तो, वस्तु B का क्रय मूल्य = ₹( $X + 120$ )  
 वस्तु A का विक्रय मूल्य =  $X \times 1.25 = ₹1.25X$   
 वस्तु B का विक्रय मूल्य =  $(X + 120) \times 0.8 = (0.8X + 96)$   
 प्रश्न के अनुसार,  
 $1.25X - (0.8X + 96) = 75$   
 या,  $0.45X - 96 = 75$   
 तो,  $X = (75 + 96) \div 0.45 = 380$   
 इसलिए, वस्तु A का लागत मूल्य = ₹380

38. **Answer: (C)**

माना वस्तु का लागत मूल्य = ₹ $100x$  है  
 फिर, प्रश्न के अनुसार,  
 $(100x \times 1.2) - (100x \times 0.85) = 168$   
 या,  $120x - 85x = 168$   
 या,  $35x = 168$   
 तो,  $x = (168/35) = 4.8$   
 तो, वस्तु का लागत मूल्य =  $4.8 \times 100 = ₹480$   
 तो, वांछित विक्रय मूल्य =  $(480 \times 1.25) - 60 = ₹540$

39. **Answer: (D)**

A के 18वें जन्मदिन तक वर्षों की संख्या =  $18 - 14 = 4$  वर्ष  
 A द्वारा प्राप्त साधारण ब्याज =  $X \times 12 \times 4 \div 100 = ₹0.48X$   
 B द्वारा प्राप्त चक्रवृद्धि ब्याज =  $(X + 625) \times \{(1 + (20/100))^2 - (X + 625)\}$   
 $= (X + 625) \times 1.2^2 - (X + 625)$   
 $= 1.44X + 900 - (X + 625) = ₹(0.44X + 275)$   
 प्रश्न के अनुसार,  
 $0.48X = 0.44X + 275$   
 अतः,  $X = 275 \div 0.04 = 6875$

40. **Answer: (D)**

180 लीटर मिश्रण में दूध की मात्रा =  $180 \times (7/15) = 84$  लीटर  
 180 लीटर मिश्रण में पानी की मात्रा =  $180 - 84 = 96$  लीटर  
 8 लीटर दूध और 19 लीटर पानी मिलाने के बाद,  
 क्रमशः पानी और दूध की मात्रा का अनुपात =  $(96 + 19):(84 + 8) = 115:92 = 5:4$

41. **Answer: (B)**

'A' और 'C' द्वारा 100% कार्य पूरा करने में लिया गया समय =  $49.5 \times 2 = 99$  दिन  
 माना कुल कार्य = 110, 90 और 99 का L.C.M = 990 यूनिट

फिर, A और B की संयुक्त दक्षता =  $990 \div 110 = 9$  यूनिट/दिन  
 B और C की संयुक्त दक्षता =  $990 \div 90 = 11$  यूनिट/दिन  
 A और C की संयुक्त दक्षता =  $990 \div 99 = 10$  यूनिट/दिन  
 तो, B की  $2 \times$  दक्षता =  $(9 + 11) - 10 = 10$  यूनिट/दिन  
 तो, B की दक्षता =  $(10/2) = 5$  यूनिट/दिन  
 कुल कार्य का 20% =  $990 \times 0.2 = 198$  इकाइयाँ  
 तो, अकेले B द्वारा 20% काम पूरा करने में लिया गया समय =  $198 \div 5 = 39.6$  दिन

42. **Answer: (B)**

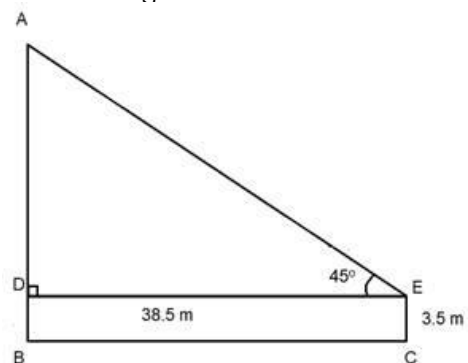
दूरी का 25% =  $672 \times 0.25 = 168$  किमी  
 तो, 168 किमी की दूरी तय करने में लगा समय =  $168 \div 40 = 4.2$  घंटे  
 शेष दूरी का 50% =  $(672 - 168) \times 0.5 = 252$  किमी  
 252 किमी की दूरी तय करने में लगा समय =  $252 \div 48 = 5.25$  घंटे  
 शेष दूरी = 252 किमी  
 शेष समय =  $13.95 - (5.25 + 4.2) = 4.5$  घंटे  
 तो, अंतिम 252 किमी की यात्रा की गति =  $252 \div 4.5 = 56$  किमी/घंटा

43. **Answer: (B)**

$x^2 + 3^2 = 2x + 7$   
 या,  $x^2 + 9 = 2x + 7$   
 या,  $x^2 + 2 = 2x$   
 दोनों पक्षों का वर्ग करने पर,  
 $(x^2 + 2)^2 = (2x)^2$   
 या,  $x^4 + 4x^2 + 4 = 4x^2$   
 या,  $x^4 + 4 = 0$   
 अतः,  $x^4 = -4$   
 और,  $x^2 = 2x - 2 = 2(x - 1)$   
 अतः,  $(x - 1) = (x^2/2)$   
 $x^4 - x^3 + x^2 + 8$   
 $= -4 - x^2(x - 1) + 8$   
 $= 4 - x^2 \times (x^2/2)$   
 $= 4 - (x^4/2)$   
 $= 4 - (-4/2)$   
 $= 4 + 2 = 6$

44. **Answer: (C)**

नीचे दिए गए प्रतिनिधित्व में,  
 मान लीजिए AB पेड़ है और जिराफ जिस जमीन पर खड़ा है उस पर 'C' बिंदु है।  
 फिर, AC जिराफ़ और पेड़ के बीच की दूरी है।  
 कोण  $\angle BCA$  झुकाव का कोण है।



समकोण त्रिभुज ADE में,

$$\tan 45^\circ = (AD/DE) = (AD/38.5) = 1$$

अतः, AD = 38.5 मीटर

और, AB = 38.5 + 3.5 = 42 मीटर

इसलिए, आवश्यक अनुपात = 42:(3.5) = 12:1

45. **Answer: (B)**

AB, DC के समानांतर है और AD, BC के समानांतर है,

अतः ABCD एक समांतर चतुर्भुज है

साथ ही, AB = BC, इसलिए ABCD एक समचतुर्भुज है

अतः, समचतुर्भुज का क्षेत्रफल =  $(1/2) \times$  विकर्णों की लंबाई का गुणनफल

$$= (1/2) \times 9 \times 14 = 63 \text{ सेमी}^2$$

एक ही आधार और एक ही समांतर रेखाओं के बीच बने त्रिभुज का क्षेत्रफल समांतर चतुर्भुज के क्षेत्रफल का आधा होता है

$$\text{तो, } \Delta ECD \text{ का क्षेत्रफल} = (1/2) \times 63 = 31.5 \text{ सेमी}^2$$

46. **Answer: (A)**

$$5\sin^2 a + 8\cos^2 a = 8$$

$$\text{या, } 5\sin^2 a + 5\cos^2 a + 3\cos^2 a = 8$$

$$\text{या, } 5(\sin^2 a + \cos^2 a) + 3\cos^2 a = 8$$

$$\text{या, } 3\cos^2 a = 8 - 5 = 3$$

$$\text{अतः, } \cos^2 a = (3/3) = 1$$

$$\text{अतः, } \cos a = \sqrt{1} = 1$$

$$\text{अतः, } a = 0^\circ$$

$$2\tan^2(a + 30^\circ) + \sec^2(2a + 45^\circ) - \sin^2 b$$

$$= 2\tan^2(0 + 30^\circ) + \sec^2(2 \times 0 + 45^\circ) - \sin^2 b$$

$$= 2 \times (1/\sqrt{3})^2 + (\sqrt{2})^2 - \sin^2 b$$

$$= (2/3) + 2 - \sin^2 b$$

$$= (8/3) - \sin^2 b = (23/12)$$

$$\text{अतः, } \sin^2 b = (8/3) - (23/12) = (9/12) = (3/4)$$

$$\text{अतः, } \sin b = (\sqrt{3}/2)$$

$$\text{अतः, } b = 60^\circ$$

47. **Answer: (D)**

प्रश्नानुसार;

$$\{(10 + x)/(12 + x)\} = \{(52 + x)/(60 + x)\}$$

$$\text{या, } (10 + x)(60 + x) = (12 + x)(52 + x)$$

$$\text{या, } 600 + x^2 + 70x = 624 + 64x + x^2$$

$$\text{या, } 6x = 24$$

$$\text{या, } x = 4$$

$$\text{अतः, } 4x^2 - 16x + 8 = 4 \times 16 - 16 \times 4 + 8 = 8$$

48. **Answer: (A)**

माना शांत पानी में नाव की गति = 'x' किमी/घंटा

फिर, नाव की धारा के प्रतिकूल और धारा के अनुकूल गति

क्रमशः (x - 6) और (x + 6) किमी/घंटा है

प्रश्न के अनुसार,

$$\{28/(x - 6)\} - \{40/(x + 6)\} = (90/60)$$

$$\text{या, } (28x + 168 - 40x + 240) \div (x^2 - 6^2) = (3/2)$$

$$\text{या, } 3x^2 - 108 = 816 - 24x$$

$$\text{या, } 3x^2 + 24x - 924 = 0$$

$$\text{या, } x^2 + 8x - 308 = 0$$

$$\text{या, } x^2 - 14x + 22x - 308 = 0$$

$$\text{या, } x(x - 14) + 22(x - 14) = 0$$

$$\text{या, } (x + 22)(x - 14) = 0$$

अतः, x = 14 (चूँकि, गति ऋणात्मक नहीं हो सकती)

इसलिए, नाव की धारा के प्रतिकूल और धारा के अनुकूल

गति क्रमशः 8 किमी/घंटा और 20 किमी/घंटा है।

नाव द्वारा धारा के अनुकूल 45 मिनट में तय की गई दूरी =

$$20 \times (45/60) = 15 \text{ किमी}$$

नाव द्वारा धारा के प्रतिकूल 105 मिनट में तय की गई दूरी

$$= 8 \times (105/60) = 14 \text{ किमी}$$

तो, तय की गई कुल दूरी = 15 + 14 = 29 किमी

49. **Answer: (A)**

$$\text{चक्रवृद्धि ब्याज} = 5600 \times \{[1 + (15/100)]^3 - 1\}$$

$$= 5600 \times \{(115/100)^3 - 1\}$$

$$= 5600 \times \{(23/20)^3 - 1\}$$

$$= ₹2,916.9$$

50. **Answer: (B)**

सबसे छोटी संख्या जिसे 48 या 70 से विभाजित करने पर कोई शेष नहीं बचता = 48 और 70 का L.C.M

$$48 \text{ और } 70 \text{ का L.C.M} = 1680$$

$$\text{तो, आवश्यक संख्या} = 1680 + 17 = 1697$$

51. **Answer: (D)**

किसी चतुर्भुज की चारों भुजाओं के मध्य बिंदुओं को मिलाने से बना कोई भी चतुर्भुज एक समांतर चतुर्भुज होता है।

हम जानते हैं कि समांतर चतुर्भुज में सम्मुख कोण बराबर होते हैं।

$$\text{तो, } 5x + y = 5y$$

$$\text{या, } 5x = 4y$$

$$\text{तो, } x = (4y/5)$$

इस मान को प्रतिस्थापित करने पर,

$$\text{समांतर चतुर्भुज के सभी कोणों का योग} = 5y + 5y + 10$$

$$\times (4y/5) + 12y - 4y$$

$$= 10y + 16y = 26y = 360^\circ$$

$$\text{तो, } y = 360 \div 26 = (180/13)$$

$$\text{तो, } x = (4/5) \times 180/13 = (144/13)$$

52. **Answer: (B)**

माना बेलन की ऊँचाई 'h' फीट है

$$\text{तब, बेलन का आयतन} = \pi \times \text{त्रिज्या}^2 \times \text{ऊँचाई}$$

$$= (22/7) \times 3.5^2 \times \text{ऊँचाई} = 462 \text{ घन फीट}$$

$$\text{तो, सिलेंडर की ऊँचाई} = 462 \div 38.5 = 12 \text{ फीट}$$

$$\text{तो, सिलेंडर का घुमावदार सतह क्षेत्र} = 2 \times \pi \times \text{त्रिज्या} \times$$

$$\text{ऊँचाई} = 2 \times (22/7) \times 3.5 \times 12 = 264 \text{ वर्ग फुट}$$

$$\text{आयताकार मैदान का क्षेत्रफल} = 165 \times 120 = 19800$$

$$\text{वर्ग फुट}$$

तो, जमीन को समतल करने के लिए रोड रोलर को कितने

$$\text{चक्कर लगाने होंगे} = 19800 \div 264 = 75$$

53. **Answer: (A)**

$$\text{बैंगलोर में बेचे गए खिलौनों की संख्या} = 5400 \times$$

$$(110/360) = 1650$$

$$\text{रायपुर में बेचे गए खिलौनों की संख्या} = 5400 \times 0.2 =$$

$$1080$$

$$\text{तो, आवश्यक अंतर} = 1650 - 1080 = 570$$

54. **Answer: (C)**

वन B में:

$$\text{माना कि शेरों और बाघों की संख्या का योग} = 100x$$

$$\text{तो, जंगल में शेरों की संख्या} = 100x \times 0.4 = 40x$$

$$\text{तो, जंगल में बाघों की संख्या} = 100x - 40x = 60x$$

प्रश्नानुसार;

$$60x - 40x = 112$$

$$\text{या, } 20x = 112$$

$$\text{तो, } x = (112/20) = 5.6$$



अतः जंगल में बाघों की संख्या =  $60 \times 5.6 = 336$   
 इसी प्रकार, जंगल 'D' में बाघों की संख्या = 112  
 तो, आवश्यक औसत =  $(336 + 112) \div 2 = 224$

55. **Answer: (A)**

समद्विबाहु त्रिभुज का क्षेत्रफल =  $(1/2) \times b \times [\sqrt{a^2 - (b^2/4)}]$

जहाँ a समान भुजाओं की लंबाई है और b आधार की लंबाई है।

अतः,  $(1/2) \times b \times [\sqrt{a^2 - (b^2/4)}] = 20\sqrt{11}$

या,  $(1/2) \times 20 \times [\sqrt{a^2 - (b^2/4)}] = 20\sqrt{11}$

या,  $[\sqrt{a^2 - (b^2/4)}] = 2\sqrt{11}$

दोनों पक्षों का वर्ग करने पर,

$\{a^2 - (b^2/4)\} = 4 \times 11$

या,  $a^2 = 44 + \{(20 \times 20)/4\} = 44 + 100 = 144$

या,  $a = 12$  सेमी (चूँकि, लंबाई ऋणात्मक नहीं हो सकती, इसलिए हम केवल धनात्मक मूल लेंगे)

56. **Answer: (A)**

कमरे में हवा का आयतन = लंबाई  $\times$  चौड़ाई  $\times$  ऊँचाई = 4320

अतः कमरे की ऊँचाई =  $4320 \div (18 \times 16) = 15$  मीटर

चारों ओर की दीवारों के पृष्ठीय क्षेत्रफल का योग =  $(2 \times$

लंबाई  $\times$  ऊँचाई) +  $(2 \times$  चौड़ाई  $\times$  ऊँचाई)

=  $(2 \times 18 \times 15) + (2 \times 16 \times 15) = 540 + 480 =$

1020 वर्ग मीटर

छत का सतह क्षेत्रफल = लंबाई  $\times$  चौड़ाई =  $18 \times 16 =$

288 वर्ग मीटर

तो, आवश्यक योग =  $1020 + 288 = 1308$  वर्ग मीटर

57. **Answer: (C)**

लम्ब वृत्ताकार शंकाकार पात्र की त्रिज्या =  $(\text{व्यास}/2) =$

$(12/2) = 6$  सेमी

कंटेनर का आयतन =  $(1/3) \times \pi \times \text{त्रिज्या}^2 \times \text{ऊँचाई}$

=  $(1/3) \times \pi \times 6^2 \times 24 = 288\pi$  सेमी<sup>3</sup>

माना समान आयतन वाले गोलाकार पात्र की त्रिज्या 'r'

सेमी है

फिर, गोलाकार बर्तन का आयतन =  $(4/3) \times \pi \times r^3 =$

$288\pi$  सेमी<sup>3</sup>

तो,  $r^3 = 288 \times (3/4) = 216$

तो,  $r = 6$  सेमी

58. **Answer: (B)**

विद्यालय A में शिक्षकों की कुल संख्या =  $0.172 \times 12500 =$

2150

माना विद्यालय 'A' में महिला शिक्षकों की संख्या = 'x'

विद्यालय A में पुरुष शिक्षकों की संख्या =  $(x + 250)$

तो,  $x + x + 250 = 2150$

या,  $2x = 1900$

तो,  $x = 950$

तो, स्कूल A में पुरुष शिक्षकों की संख्या =  $950 + 250 =$

1200

स्कूल D में पुरुष शिक्षकों की संख्या =  $0.80 \times 0.324 \times$

$12500 = 3240$

आवश्यक अंतर =  $3240 - 12000 = 2040$

59. **Answer: (A)**

मान लीजिए वर्षा द्वारा निवेश किए गए महीनों की संख्या =

'y'

फिर, वंश ने कितने महीनों के लिए निवेश किया =  $(y + 5)$

वंश और वर्षा के लाभ शेयरों का अनुपात क्रमशः =

$\{2800 \times (y + 5)\} : (4800 \times y) = 7:9$

या,  $(2800 \text{ वर्ष} + 14000) : (4800 \text{ वर्ष}) = 7:9$

या,  $25200y + 126000 = 33600y$

या,  $8400y = 126000$

तो,  $y = 126000 \div 8400 = 15$

तो, वंश ने व्यवसाय में निवेश किए गए महीनों की संख्या =

$15 + 5 = 20$  महीने

60. **Answer: (D)**

वस्तु A का विक्रय मूल्य =  $400 \times 1.4 \times 0.75 = ₹420$

वस्तु 'D' का विक्रय मूल्य =  $300 \times 1.5 \times 0.76 = ₹342$

तो, आवश्यक अंतर =  $420 - 342 = ₹78$

## English Language and Comprehension

61. **Answer: (B)**

The sentence is in an interrogative mood, active voice and simple past tense (DID YOU CLEAN). Follow the rules below to convert a sentence in the interrogative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject (YOU) will change to the object form, which is also YOU, and the object (THE GARDEN) will change into the subject and begin the sentence.

II. Replace the auxiliary verb DID with WAS. Likewise, replace CLEAN with CLEANED. The passive voice construction for the simple past tense in interrogative mood is "was/were + subject + past participle + by + object".

III. Add the conjunction BY before YOU to link the verb with its object.

Option B is the correct answer.

62. **Answer: (B)**

(B) is the right answer. Follow the rules below to change a sentence from active to passive voice:

I. The subject THE COMPUTER will change to the object, and the object A PROBLEM will change into the subject and begin the sentence.

II. The simple past tense construction ENCOUNTERED will change to WAS ENCOUNTERED.

III. Add the preposition 'by' before the subject THE COMPUTER.

63. **Answer: (D)**

D is the right answer. Follow the instructions below to change a sentence from active to passive voice:

I. The subject THE WATER WORKS BOARD will turn into the object, and the object WATER will change into the subject and begin the sentence.

II. Replace IS SUPPLYING with IS BEING SUPPLIED.

III. Add the preposition 'by' before the object THE WATER WORKS BOARD.

64. **Answer: (C)**

The sentence is in an interrogative mood, active voice and simple past tense (did you remove). Follow the rules below to convert a sentence in interrogative mood to passive voice:

I. The subject clause will become the object clause. Here, the subject (YOU) will change to the object of the verb, and the object (YOUR SHOES) will change into the subject.

II. Replace the auxiliary verb DID with WERE. Likewise, replace REMOVE with REMOVED. The passive voice construction for simple past tense in interrogative mood is "was + subject + past participle + by + object".

III. Add the conjunction BY before YOU to link the verb with its object.

Option C is the right answer.

65. **Answer: (C)**

C is the right answer. Follow the instructions below to change a sentence from active to passive voice:

I. The subject THE GARDENER will turn into the object, and the object THE PLANTS will change into the subject and begin the sentence.

II. Replace IS WATERING with ARE WATERED.

III. Add the preposition 'by' before the object THE GARDENER.

66. **Answer: (B)**

The correct answer is option B. IS FORCING is grammatically correct because the sentence is talking about a sentence that is happening or will happen in the future.

A and B are incorrect because the verbs are in passive voice, while the sentence is in active voice.

67. **Answer: (D)**

The correct answer is option D.

Replace the given phrase 'for my experience' with 'in my experience'.

'In my experience' phrase means based on what I know, judging from what has happened to me.

Thus, option D is the correct answer.

68. **Answer: (C)**

The correct answer is option C, i.e. ending. The word 'threshold' means the level at which something starts to happen. The word 'ending' means the last part of something. Thus it is clear that 'threshold' and 'ending' are opposite words. Thus, C is the right answer.

Let's look at the meaning of other words:

Generating - to produce or create something.

Floating - not fixed; not living permanently in one place.

Binding - making it necessary for somebody to do something he/she has promised or to obey a law, etc.

69. **Answer: (B)**

The literal meaning of the idiom 'fire and brimstone' is 'the punishment that last forever'.

Therefore option B seems the most relevant. The other alternatives are entirely different.

70. **Answer: (B)**

To sell ice to eskimos means to persuade people to go against their best interests or to accept something unnecessary or preposterous. Eskimos are indigenous people who live in very cold, snowy regions - they don't need any ice. If someone can sell ice to them, that person can sell anything to anyone. E.g. He is such a good salesman, he can sell ice to eskimos!

Hence option B is the correct answer.

71. **Answer: (C)**

The correct answer is option C, i.e. snoozing. The word 'snoozing' means 'a short nap or sleep'. Its given in the first line of the passage that sloths are 'lethargic' in nature. Therefore, the verb 'snoozing' which means 'sleeping' fits perfectly in the context. The other alternatives are irrelevant given the nature of sloths.

Therefore, the correct answer is option C.

72. **Answer: (B)**

The correct answer is option B, i.e. canopy (the uppermost branches of trees in a forest).

Since it is mentioned in the preceding lines of the passage that sloths reside in the canopies, therefore, they would naturally use canopy vines to travel from tree to tree and not any other type of vines.

Therefore, the correct answer is option B.

Damsel - a young woman.

73. **Answer: (C)**

The correct answer is option C, i.e. deforestation.

The word 'deforestation' means 'cutting down of forests and trees in large tracts of land'. The sentence that is followed by the blank, specifies the 'loss of trees'.

Therefore, the correct answer is option C.

Afforestation - the practice of planting trees. Pollution - the act of impurifying the environment. Sewage - waste water and excrement conveyed in sewers.

74. **Answer: (D)**

The correct answer is option D, i.e. forests. Sloths reside in forests and deforestation are endangering their existence. Hence, every kind of organisation should work towards preserving forests.

Therefore, the correct answer is option D.

75. **Answer: (C)**

The correct answer is option C, i.e. languid. The word 'languid' means 'to show a disinclination towards physical exertion'. It can also be seen as a synonym for sluggish. Since, sloths are slow, lethargic and sluggish, therefore, they will have a languid or sluggish pace.

Therefore, the correct answer is option C.

Dangerous - risky. Soft - tender.

76. **Answer: (C)**

PICK ON (bullied) will fit here as the sentence tells us how the older eaglets bully the younger ones and eat them in case of food shortage. Thus, C is the right answer.

Pick up - lift. Pick out - select. Pick off - remove.

77. **Answer: (A)**

(a) is the right answer.. From the given sentences, we understand that it is a conversation between a mother, father and their two daughters. The scrambled parts must be arranged logically to understand their entire conversation. It is important to establish a connection between these parts.

Line D starts with an affirmative response, without any prior link to the dialogue. The paragraph thus cannot start with D. Thus it is ruled out.

The paragraph thus begins with B. It is an introduction to the conversation about 'where the girls are going'. A follows B. The response to the question is answered in A. It states 'the girls are going to the market'. C follows A. The mother tells the girls to carry an umbrella as it is going to rain. D follows C. It is the daughter's agreement 'yes we will...' to mother's statement. Thus the correct order is BACD.

78. **Answer: (A)**

(a) is the correct answer. The sentence begins with the part B, as it established the subject i.e. AI systems. A follows by telling us about the additional creation of an AI system of generating inappropriate content. D follows by telling us about the AI systems that can be used to manipulate people. C follows by concluding that, this media can potentially access sensitive information, raising concerns about data privacy and security. BADC is the final order.

79. **Answer: (C)**

SQRP is the correct sequence. S begins the paragraph by introducing the topic - extraction of calories. It tells us that the body can extract calories completely from a sugar or glucose solution. Q follows S by telling us that the degree of absorption depends on the composition of the food and on the eaters themselves. RP puts forth the consequence of that - indigestion of fibre; poor digestion of protein and polysaccharides from mushrooms and some algae. Thus, SQRP is the correct sequence, making C the right answer.

80. **Answer: (D)**

The correct sequence should be SPRQ. The sentence begins with the part S, as it established the subject i.e. pandemic. P follows by telling us about

the health insurance plans. R follows by telling us about the betterment of risk profile. Q follows by concluding about the targeted young consumer set. Thus, D is the right answer.

81. **Answer: (D)**

QSPR is the correct order. Q begins the paragraph by introducing the topic - Mark Zuckerberg's colour blindness test. It tells us how Zuckerberg realised that he was colour blind. S follows Q by adding that he faced difficulty in differentiating between shades of red and green. P follows S by talking about this being the reason behind Meta's blue colour. R concludes the paragraph by summarising it up - changes brought about due to one man's peculiarity. Thus, D is the right answer.

82. **Answer: (B)**

PQRS is the final order. P begins the paragraph by telling us how it is important to self-isolate if one gets sick. Q proceeds by telling us how one must also remember to test after the isolation period is over. RS concludes as a pair: R tells us how risk management is a partnership between individuals, families and other stakeholders. S concludes by telling us how the government is the other partner. Thus, B is the right answer.

83. **Answer: (B)**

The correct answer is option B. We need an adjective to modify the noun SCANDAL.  
'Raged' means feel or express violent uncontrollable anger. (it is a verb)  
'Outrageous' means are shockingly bad or excessive. (adjective)

'Tagging' is an incorrect word.

'Outraged' means an extremely strong reaction of anger, shock, or indignation. (verb)

84. **Answer: (A)**

The correct answer is option A. We need to place a past participle form of the verb in the given blank, in order to form the formation of 'HAS+V3'.

Sounded - to give a particular impression when heard or read about; to seem.

Decided - clear; definite.

Mandated - give (someone) authority to act in a certain way.

Gained - to obtain or win something, especially something that you need or want.

85. **Answer: (D)**

We need an adjective to modify the noun CONSEQUENCES. DIRE (extremely serious) will fit here as the sentence talks about the awful consequences of unemployment in the 1930s. Thus, D is the right answer.

Promising - hopeful. DISPUTE (n/v) - argument. Prosperous - successful; doing well.

86. **Answer: (B)**

We need a noun to be modified by adjectives SIGNIFICANT and POSITIVE. INFLUENCE (impact) will fit here as the sentence tells us how religion tends to have a noteworthy and good impact on people's behaviour concerning moral decisions. Thus, B is the right answer.

Power - strength. Flaw - shortcoming. Attention - focus.

87. **Answer: (A)**

The correct answer is option A. 'Had known' is the correct answer because 'had' is used for the past perfect tense. The past perfect tense is used when we are referring to the first of two events both of which took place in the past.

AM KNOWING is the present continuous tense. KNOW and KNOWS are the simple present tense.

88. **Answer: (B)**

(b) is the right answer. Follow the rules below to change a sentence from direct to indirect speech:

I. Remove the comma and quotation marks.

II. Insert THAT after the reporting verb clause ANAMIKA SAID.

III. The present perfect tense construction HAVE COMPLETED will change to the past perfect tense construction HAD COMPLETED.

IV. The first person pronouns I and MY will change to the third person pronouns SHE and HER respectively.

89. **Answer: (C)**

C is the right answer. Follow the instructions below to convert a sentence from direct to indirect speech:

I. Remove the comma and inverted commas.

II. Add THAT after the reporting speech clause ROHIT SAID.

III. The past continuous tense WAS CALLING will change to the past perfect continuous tense HAD BEEN CALLING.

IV. The first person pronoun I will change to the third person pronoun HE.

90. **Answer: (B)**

Option B is the right answer.

The sentence is in direct speech and in an indicative mood. To convert this sentence to the indirect speech, follow these rules:

I. Remove the comma and the inverted commas.

II. Change the reporting verb SAID to TOLD. The preposition TO after TOLD will be redundant and should be removed. Begin the indirect speech sentence with the reporting speech clause HE TOLD ME.

III. Put THAT between the reporting and reported speeches.

IV. The first person subjective pronoun I and the second person possessive pronoun YOUR will change to the third person subjective HE and the first person possessive pronoun MY respectively.

V. Replace the simple past tense DO NOT WANT with the simple past tense DID NOT WANT.

VI. The verb ATTEND will remain the same as the infinitive construction TO+VERB requires a verb in its base form.

VII. Use the indicative mood syntax: Reporting speech clause (HE TOLD ME) + THAT + Subject (HE) + verb clause (DID NOT WANT TO ATTEND) + Object (MY PARTY).

91. **Answer: (B)**

B is the right answer. Follow the instructions below to convert a sentence from direct to indirect speech:

I. Remove the comma and inverted commas.

II. Add THAT after the reporting speech clause ANJANA SAID.

III. The past continuous tense WAS WAITING will change to the past perfect continuous tense HAD BEEN WAITING.

IV. The first person pronoun I will change to the third person pronoun SHE.

92. **Answer: (B)**

(B) is the right answer. Follow the rules below to change a sentence from direct to indirect speech:

I. Remove the comma and quotation marks.

II. Insert THAT after the reporting verb clause ROHAN SAID.

III. The present perfect tense construction HAVE COMPLETED will change to the past perfect tense construction HAD COMPLETED.

IV. The first person possessive pronoun MY will change to the third person possessive pronoun HIS.

93. **Answer: (C)**

The error is in part C of the sentence. The subject of the sentence is 'mascot'. Since mascot is singular, it needs a singular verb (volunteers). In this sentence,



"as well as the hockey players" is a prepositional phrase and therefore not part of the simple subject. According to the Subject-Verb agreement rule, subjects and verbs must AGREE with one another in number (singular or plural). Thus, if a subject is singular, its verb must also be singular; if a subject is plural, its verb must also be plural. Hence the correct answer is option C. Correct sentence: The mascot, as well as the hockey players, volunteers at the school.

94. **Answer: (A)**

The error lies in part A of the sentence. Replace 'allege' with 'alleged'. As the sentence is in past perfect tense, so it should be framed as - 'had+past participle of verb'. Thus, A is the right answer.

95. **Answer: (C)**

The correct answer is option C. The verb INCREASE should be replaced with the adjective INCREASING as it is being used to modify the noun SCRUTINY.

96. **Answer: (A)**

The correct answer is option A: 'Life experiences'. Refer to the lines: "...literature has provided a gateway to teach the reader about life experiences from even the saddest stories to the most joyful ones that will touch their hearts." None of the other options is mentioned in the passage.

97. **Answer: (D)**

The correct answer is option D: 'Reading'. Refer to the lines: "Reading and being given the keys to the literature world prepares individuals from an early age to discover the true importance of literature."

The other options are incorrect as per the passage.

98. **Answer: (A)**

The correct answer is option A: 'William Shakespeare'. The above paragraph states that in William Shakespeare's stories, each one is meant to be reflective of human nature - both the good and bad.

The other authors are not mentioned in the passage.

99. **Answer: (A)**

The correct answer is option A: 'Literature'. Refer to the lines: "Literature is the foundation of life."

The other options are not mentioned in the passage.

100. **Answer: (A)**

The correct answer is option A: 'Inanimate objects'. Inanimate objects refer to a thing that is not alive, such as a rock, a chair, a book, etc.

Refer to the lines: "Literature enables people to see through the lenses of others, and sometimes even inanimate objects. Therefore, it becomes a looking glass into the world as others view it."

The other options are not mentioned in the passage.

101. **Answer: (B)**

One who walks in sleep is known as A SOMNILOQUIST. Thus, B is the right answer.

Somnambulist - one who talks in sleep. Soliloquy - act of speaking one's thoughts aloud. Chauffeur - a person employed to drive a car.

102. **Answer: (A)**

The correctly spelled word is POSTHUMOUS (old). Thus, A is the right answer.

Belligerent - extremely harsh. Discrete - cautious; careful. Magnificent - marked by stately grandeur.

103. **Answer: (D)**

The sentence is grammatically correct and free of error. Thus, D is the right answer.

104. **Answer: (A)**

CHIDE means to scold or criticise. CHASTISE is its synonym. Thus, A is the right answer.

Annoy - trouble. Conjecture - speculate. Avert - prevent.

105. **Answer: (C)**

BCDA is the correct sequence. B begins the passage by establishing the subject - HARMFUL EFFECTS OF MERCURY. It tells us how mercury is especially harmful for unborn fetuses. C continues by giving an example - the consumption of one can of white tuna a week by a pregnant mother can be harmful for her unborn baby. D follows by contrasting with the previous statement and telling us how this does not mean that consumers should stop eating fish. A follows by telling us what they should do instead - be more aware of the types of fish they are eating. Thus, C is the right answer.

## General Awareness

106. **Answer: (C)**

जहांगीर महल का निर्माण 17वीं शताब्दी में बुंदेला शासक बीर सिंह देव ने करवाया था। यह महल बीर सिंह देव और जहांगीर की दोस्ती का प्रतीक है। जहांगीर की ओरछा की पहली यात्रा के दौरान उनके सम्मान में यह महल बनवाया गया था।

एक और जहांगीर महल, जो आगरा किले के अंदर स्थित है, अकबर ने अपने बेटे जहांगीर के लिए अपने निजी निवास के रूप में बनवाया था।

107. **Answer: (B)**

नागरिकता अधिनियम, 1955, नागरिकता खोने के तीन तरीके निर्धारित करता है, चाहे इसके तहत अर्जित की गई हो

संविधान के तहत अधिनियम या उससे पहले, जो इस प्रकार हैं:

- त्याग
- समाप्ति
- अभाव

108. **Answer: (A)**

संविधान के अनुच्छेद 93 में अध्यक्ष और उपाध्यक्ष दोनों के चुनाव का प्रावधान है।

लोकसभा के उपाध्यक्ष का संवैधानिक पद किसी वास्तविक प्राधिकार से अधिक संसदीय लोकतंत्र का प्रतीक है।

उन्हें अपनी मूल पार्टी से इस्तीफा देने की कोई जरूरत नहीं है, हालांकि उप सभापति के रूप में उन्हें निष्पक्ष रहना होगा।

लोकसभा का उपाध्यक्ष लोकसभा अध्यक्ष के अधीन नहीं होता है, वह लोकसभा के प्रति उत्तरदायी होता है और लोकसभा का दूसरा सर्वोच्च रैंकिंग वाला विधायी अधिकारी होता है।

109. **Answer: (C)**

राष्ट्रीय फ़िल्म पुरस्कार 1954 में स्थापित भारत का सबसे प्रमुख फ़िल्म पुरस्कार समारोह है।

पहला पुरस्कार मराठी फिल्म 'श्यामची आई' को दिया गया।

भारत के माननीय राष्ट्रपति पुरस्कार प्रदान करते हैं और अंत में जनता के लिए पुरस्कार विजेता फिल्मों का प्रदर्शन किया जाता है।

110. **Answer: (D)**

स्टर्ट स्टोनी रेगिस्तान अन्य तीन दिए गए रेगिस्तानों के पूर्व में स्थित है।

111. **Answer: (A)**

अध्ययन का नाम	अध्ययन क्षेत्र
कार्डियलजी	हृदय और उसकी कार्यप्रणाली का अध्ययन

कार्टोलोजी	मानचित्रों का अध्ययन
केटोलॉजी	व्हेल का अध्ययन
जलवायु विज्ञान	जलवायु का अध्ययन
कंकोलोजी	सीपियों का अध्ययन
कोस्मेटोलोजी	सौंदर्य प्रसाधन का अध्ययन

112. **Answer: (C)**  
जलवायु परिवर्तन प्रदर्शन सूचकांक (सीसीपीआई) 2023 तीन पर्यावरणीय गैर-सरकारी संगठनों द्वारा संयुक्त रूप से जारी किया गया है। जर्मनवॉच, न्यूक्लाइमेट इंस्टीट्यूट और क्लाइमेट एक्शन नेटवर्क (सीएएन) इंटरनेशनल।  
• कोई भी देश पहले तीन पायदान पर नहीं पहुंच पाया।  
• डेनमार्क 79.61 स्कोर के साथ चौथे स्थान पर है। इसके बाद 73.28 अंकों के साथ स्वीडन (5वें) और 69.54 अंकों के साथ चिली (6वें) का स्थान है।  
• सूचकांक में सबसे खराब प्रदर्शन करने वाले ईरान, सऊदी अरब और कजाकिस्तान हैं।  
भारत का प्रदर्शन:  
67.35 अंकों के साथ भारत 63 देशों में 8वें स्थान पर है।  
2022 और 2021 में भारत 10वें स्थान पर रहा। 2020 में यह 9वीं रैंक पर रहा।
113. **Answer: (C)**  
ऑक्टोपस के तीन दिल होते हैं, जो आंशिक रूप से नीले खून का परिणाम है। उनके दो परिधीय हृदय गिल्स के माध्यम से रक्त पंप करते हैं, जहां यह ऑक्सीजन लेता है। फिर एक केंद्रीय हृदय अंगों और मांसपेशियों को ऊर्जा प्रदान करने के लिए ऑक्सीजन युक्त रक्त को शरीर के बाकी हिस्सों में प्रसारित करता है।  
ऑक्टोपस के पास 9 'दिमाग' होते हैं। समग्र नियंत्रण के लिए एक केंद्रीय मस्तिष्क का उपयोग किया जाता है।  
पक्षियों और स्तनधारियों के हृदय में चार कक्ष (दो अटरिया और दो निलय) होते हैं।  
एक मेंढक, जो एक उभयचर है, का हृदय तीन कक्षों (एक निलय और दो अटरिया) वाला होता है।  
मछलियों के हृदय में दो कक्ष (एक आलिंद और एक निलय) होते हैं।
114. **Answer: (C)**  
कर्नाटक बैंक ने श्रीकृष्णन हरिहर सरमा को प्रबंध निदेशक और मुख्य कार्यकारी अधिकारी (एमडी और सीईओ) नियुक्त किया है।  
सरमा के पास वाणिज्यिक, खुदरा और लेनदेन बैंकिंग, प्रौद्योगिकी और भुगतान में लगभग चार दशकों का अनुभव है। वह नौ वर्षों से अधिक समय तक एचडीएफसी बैंक लिमिटेड की संस्थापक प्रबंधन टीम का हिस्सा थे।
115. **Answer: (B)**  
चीन ने हाल ही में शेनझोउ-16 मिशन लॉन्च किया है। इस मिशन के हिस्से के रूप में, तीन अंतरिक्ष यात्रियों ने उत्तर पश्चिम चीन के गोबी रेगिस्तान में जिउकान सैटेलाइट लॉन्च सेंटर से लॉन्ग मार्च -2 एफ रॉकेट के ऊपर उड़ान भरी।  
शेनझोउ-16 अंतरिक्ष यान में सवार अंतरिक्ष यात्री अगले पांच महीनों तक तियांगोंग अंतरिक्ष स्टेशन में रहेंगे। यह 2021 के बाद से पूरी तरह कार्यात्मक अंतरिक्ष स्टेशन के लिए देश का पांचवां मानवयुक्त मिशन है।
116. **Answer: (B)**  
पूँजी बाजार नियामक सेबी ने हाल ही में अपनी मध्यस्थ सलाहकार समिति का पुनर्गठन किया है।

यह समिति कानूनी ढांचे में बदलाव और स्टॉक ब्रोकरों, क्लियरिंग सदस्यों और डिपॉजिटरी प्रतिभागियों जैसे बाजार मध्यस्थों की प्रणालियों और प्रक्रियाओं में पारदर्शिता बढ़ाने से संबंधित मामलों पर सिफारिशें प्रदान करने के लिए जिम्मेदार है।

117. **Answer: (C)**  
पीटर मुंडी (1630-34 ई.) एक इटालियन यात्री था। उन्होंने मुगल सम्राट शाहजहाँ के शासनकाल के दौरान दौरा किया था।  
उन्होंने मुगल साम्राज्य में आम लोगों के जीवन स्तर के बारे में बहुमूल्य जानकारी दी।
118. **Answer: (D)**  
कैबिनेट मिशन योजना 16 मई, 1946 को कैबिनेट मिशन और वायसराय, लॉर्ड वेवेल द्वारा दिया गया एक बयान था, जिसमें भारतीय राजनीतिक दलों और प्रतिनिधियों के बीच एक समझौते पर नहीं आने के मद्देनजर भारत के संवैधानिक भविष्य के बारे में प्रस्ताव शामिल थे।  
कैबिनेट मिशन के सदस्य थे:  
• लॉर्ड पेन्थिक-लॉरेंस  
• सर स्टैफ़ोर्ड क्रिप्स  
• ए.वी अलेक्जेंडर
119. **Answer: (B)**  
आलिया बेट एक छोटा सा निर्जन द्वीप है जो भारत के गुजरात में भडभूत जिले में और भडभूत शहर के पास स्थित है। यह नर्मदा नदी पर एक छोटा सा द्वीप है, जिसका क्षेत्रफल लगभग 3.5 एकड़ है।  
यह मछुआरों और उन लोगों के लिए एक छोटे से पड़ाव के रूप में कार्य करता है जो उत्तर भारत की प्रकृति के चमत्कारों की खोज के लिए नदी के किनारे यात्रा करते हैं।
120. **Answer: (D)**  
महाराष्ट्र राज्य में किये जाने वाले कुछ महत्वपूर्ण नृत्य फार्म हैं:  
• लावनी  
• नकटा  
• कोली  
• लेज़िम  
• गफ़ा  
• दहीकला दशावतार या बोहड़ा
121. **Answer: (C)**  
ताकिन (बर्डोरकास टैक्सीकलर) भूटान का राष्ट्रीय पशु है। यह बोविद धार्मिक इतिहास और पौराणिक कथाओं से भी जुड़ा है। इसकी मोटी गर्दन और छोटी मांसल टांगें होती हैं।  
आज, यह एक दुर्लभ जानवर है और इसकी संरक्षण स्थिति 'असुरक्षित' है।
122. **Answer: (D)**  
विष्णुपद मंदिर बिहार के गया में स्थित है। इसका निर्माण रानी अहिल्याबाई द्वारा वर्ष 1787 ई. में करवाया गया था। यह फल्गु नदी के तट पर स्थित एक सुंदर पवित्र स्थान है जो तीन तरफ से ऊबड़-खाबड़ चट्टानों और चौथी तरफ पानी से घिरा हुआ है।
123. **Answer: (A)**  
बाई मिजोरम का एक लोकप्रिय व्यंजन है। यह विभिन्न प्रकार की सब्जियों से तैयार किया गया एक स्टू है। इसे अलग-अलग तरह की मौसमी सब्जियों को मिलाकर कई तरह से तैयार किया जा सकता है।

124. **Answer: (B)**  
यूरोप दुनिया के सबसे बड़े प्रायद्वीपों में से एक है और महाद्वीपीय स्थिति वाला एकमात्र प्रायद्वीप है। क्षेत्रफल के हिसाब से यह दुनिया का 5वां सबसे बड़ा महाद्वीप है, जिसका क्षेत्रफल लगभग 9.9 मिलियन वर्ग किमी है। यूरोप में चार सबसे बड़े प्रायद्वीप इतालवी, बाल्कन, इबेरियन और स्कैंडिनेवियाई प्रायद्वीप हैं। स्कैंडिनेवियाई प्रायद्वीप के बाद इबेरियन प्रायद्वीप महाद्वीप का दूसरा सबसे बड़ा प्रायद्वीप है।

125. **Answer: (A)**  
कमीशन प्राप्त अधिकारी: भारतीय सेना में रैंक और प्रतीक चिन्ह

कमीशन अधिकारी	प्राप्त	प्रतीक चिन्ह
फील्ड मार्शल		कमल के फूल की माला में क्रॉस तलवार और डंडे के ऊपर राष्ट्रीय प्रतीक।
जनरल		स्टार और राष्ट्रीय प्रतीक के साथ क्रॉस तलवार और डंडा।
लेफ्टिनेंट जनरल		ऊपर राष्ट्रीय प्रतीक के साथ क्रॉस तलवार और डंडा।
मेजर जनरल		ऊपर तारे के साथ क्रॉस तलवार और डंडा।
ब्रिगेडियर		एक त्रिभुज में तीन तारे और ऊपर राष्ट्रीय प्रतीक।
कर्नल		ऊपर दो सितारे और राष्ट्रीय प्रतीक।
लेफ्टेनंट कर्नल		ऊपर एक सितारा और राष्ट्रीय प्रतीक।
मेजर		राष्ट्रीय प्रतीक।

126. **Answer: (B)**  
सप्तक वार्षिक संगीत महोत्सव अहमदाबाद, गुजरात में आयोजित एक वार्षिक तेरह दिवसीय भारतीय शास्त्रीय संगीत महोत्सव है।

127. **Answer: (C)**  
पश्चिम बंगाल में दार्जिलिंग हिमालयन रेलवे का घुम रेलवे स्टेशन भारत का सबसे ऊँचा रेलवे स्टेशन है। यह 2,258 मीटर की ऊँचाई पर स्थित है जबकि शिमला 2086 मीटर पर है। दार्जिलिंग 2073 मीटर पर है।

128. **Answer: (B)**  
कस्बों की संख्या 2001 में 5161 से बढ़कर 2011 में 7935 हो गई है।

129. **Answer: (C)**  
संयुक्त राष्ट्र पर्यावरण कार्यक्रम संयुक्त राष्ट्र प्रणाली के भीतर पर्यावरणीय मुद्दों पर प्रतिक्रियाओं के समन्वय के लिए जिम्मेदार है।

संयुक्त राष्ट्र पर्यावरण कार्यक्रम (यूएनईपी)	
स्थापित	5 जून 1972
मुख्यालय	नैरोबी, केन्या

130. **Answer: (A)**  
लोकप्रिय गोपीनाथ बोरदोलोई अंतर्राष्ट्रीय हवाई अड्डे को गुवाहाटी हवाई अड्डे के रूप में भी जाना जाता है। यह भारत के उत्तर-पूर्वी राज्यों के प्राथमिक अंतरराष्ट्रीय हवाई

अड्डे के रूप में कार्य करता है, जो असम राज्य के बोरझार में स्थित है।

यह बैंकॉक, पारो, थाईलैंड आदि के लिए अंतर्राष्ट्रीय हवाई मार्ग प्रदान करता है।

## Computer Knowledge

131. **Answer: (A)**  
• बड़े नेटवर्क में, नोड एक उपकरण या डेटा बिंदु होता है।  
• नेटवर्किंग में नोड एक कनेक्शन बिंदु, एक पुनर्वितरण बिंदु या एक संचार समापन बिंदु है।  
• सूचना नोड्स द्वारा बनाई, प्राप्त और संचारित की जाती है, जो फिर इसे अन्य नोड्स में संग्रहीत या रिले करती है।  
• उदाहरण के लिए, एक कंप्यूटर नेटवर्क में, एक स्कैनर छवियाँ बनाता है और उन्हें कंप्यूटर पर वितरित करता है, जबकि एक राउटर इंटरनेट से प्राप्त डेटा को व्यवस्थित करता है और इसे नेटवर्क के विभिन्न उपकरणों में वितरित करता है।

132. **Answer: (A)**  
फ़िशिंग भ्रामक ई-मेल और वेबसाइटों का उपयोग करके व्यक्तिगत जानकारी इकट्ठा करने का एक तरीका है। यह एक साइबर अपराध है जिसमें किसी लक्ष्य या लक्ष्य से ईमेल, टेलीफोन या टेक्स्ट संदेश द्वारा संपर्क किया जाता है। यह व्यक्तिगत पहचान योग्य जानकारी, बैंकिंग और क्रेडिट कार्ड विवरण और पासवर्ड जैसे संवेदनशील डेटा प्राप्त करने के लिए किया जाता है।

फिर जानकारी का उपयोग महत्वपूर्ण खातों तक पहुंचने के लिए किया जाता है और इसके परिणामस्वरूप पहचान की चोरी और वित्तीय हानि हो सकती है।

इस प्रकार, फ़िशिंग एक सामान्य प्रकार का साइबर हमला है जिसके बारे में हर किसी को अपनी सुरक्षा के लिए सीखना चाहिए।

133. **Answer: (A)**  
Microsoft PowerPoint एक शक्तिशाली स्लाइड शो प्रेजेंटेशन प्रोग्राम है। यह एक प्रोग्राम है जो माइक्रोसॉफ्ट ऑफिस सुइट में शामिल है।

इसका उपयोग व्यक्तिगत और व्यावसायिक उद्देश्यों के लिए प्रस्तुतियाँ देने के लिए किया जाता है।

पावरपॉइंट उपयोगकर्ताओं को विशिष्ट अनुभागों पर ध्यान केंद्रित करने या संपूर्ण स्लाइड को समग्र रूप से देखने में मदद करने के लिए स्लाइड को ज़ूम इन और ज़ूम आउट करने की अनुमति देता है।

PowerPoint द्वारा समर्थित न्यूनतम ज़ूम 10% और अधिकतम 400% है।

134. **Answer: (D)**  
किसी फ़ोल्डर से हटाए गए ई-मेल पूरी तरह से खत्म नहीं होते हैं। हटाए गए ई-मेल आमतौर पर ट्रैश फ़ोल्डर में एक निर्धारित समय के लिए संग्रहीत होते हैं।

• यदि आप अपने इनबॉक्स से कोई ई-मेल हटाते हैं, तो इसे प्रारंभ में ट्रैश फ़ोल्डर में डाल दिया जाएगा।

• ई-मेल केवल तभी स्थायी रूप से हटाया जाएगा यदि आप इसे ट्रैश फ़ोल्डर में हटा देते हैं या ट्रैश खाली कर देते हैं, या यदि ई-मेल का संग्रहण समय समाप्त हो गया है।

• स्थायी रूप से हटाए गए ई-मेल को पुनर्प्राप्त नहीं किया जा सकता।

135. **Answer: (A)**



HTML टैग कीवर्ड की तरह होते हैं जो परिभाषित करते हैं कि वेब ब्राउज़र सामग्री को कैसे प्रारूपित और प्रदर्शित करेगा।

टैग की सहायता से, एक वेब ब्राउज़र HTML सामग्री और साधारण सामग्री के बीच अंतर कर सकता है।

- HTML टैग में तीन मुख्य भाग होते हैं: ओपनिंग टैग, कंटेंट और क्लोजिंग टैग।

- HTML टैग का उपयोग HTML दस्तावेज़ बनाने और उनके गुणों को प्रस्तुत करने के लिए किया जाता है।

- सभी HTML टैग < > इन ब्रैकेट के भीतर संलग्न होने चाहिए।

- HTML में प्रत्येक टैग अलग-अलग कार्य करता है।

136. **Answer: (C)**

डेटा परत कंप्यूटर नेटवर्किंग के सात-परत OSI मॉडल की दूसरी परत है।

यह परत प्रोटोकॉल परत है जो वाइड एरिया नेटवर्क (WAN) में आसन्न नेटवर्क नोड्स के बीच या समान स्थानीय क्षेत्र नेटवर्क (LAN) सेगमेंट पर नोड्स के बीच डेटा स्थानांतरित करती है।

- नेटवर्क पर आमतौर पर दो प्रकार के डेटा लिंक लेयर डिवाइस का उपयोग किया जाता है: ब्रिज और स्विच।

- ब्रिज का उपयोग एक ही प्रोटोकॉल पर काम करने वाले दो LAN को आपस में जोड़ने के लिए किया जाता है।

- एक स्विच एक बफर और एक डिज़ाइन वाला मल्टीपोर्ट ब्रिज है जो इसकी दक्षता और प्रदर्शन को बढ़ा सकता है।

137. **Answer: (B)**

सेवा से वंचित करना एक प्रकार का हमला है जिसका उद्देश्य किसी सर्वर या नेटवर्क संसाधन को उपयोगकर्ताओं के लिए दुर्गम बनाना है।

- यह लक्ष्य को ट्रैफिक से भर कर या उसे ऐसी जानकारी प्रदान करके प्राप्त करता है जिससे लक्ष्य दुर्घटनाग्रस्त हो जाता है।

- यह एक मशीन और एक इंटरनेट कनेक्शन वाले सर्वर पर हमला करता है।

- हैकर्स द्वारा वैध उपयोगकर्ताओं को सेवा का उपयोग करने से रोकने का प्रयास किया जाता है।

138. **Answer: (C)**

एक डिफॉल्ट प्रोग्राम वह होता है जो तब लॉन्च होता है जब आप किसी फ़ाइल पर डबल-क्लिक करते हैं।

- यदि आप विंडोज़ में a.TXT फ़ाइल पर डबल-क्लिक करते हैं और यह नोटपैड में खुलती है तो इसका मतलब है कि नोटपैड ".txt" अंत वाली फ़ाइलों के लिए डिफॉल्ट प्रोग्राम है।

- क्योंकि कई फ़ाइल प्रकार कई प्रोग्राम द्वारा खोले जा सकते हैं, इसलिए डिफॉल्ट प्रोग्राम की आवश्यकता होती है।

- प्रत्येक फ़ाइल एक्सटेंशन के लिए, विंडोज़ और मैकिंटोश दोनों कंप्यूटर डिफॉल्ट ऐप्स की एक सूची रखते हैं।

- "फ़ाइल एसोसिएशन" प्रोग्राम और फ़ाइल एक्सटेंशन के बीच लिंक को संदर्भित करता है।

139. **Answer: (D)**

फ़ाइल नाम एक टेक्स्ट स्ट्रिंग है जिसका उपयोग किसी विशेष फ़ाइल की पहचान करने के लिए किया जाता है।

- कंप्यूटर की हार्ड ड्राइव पर प्रत्येक फ़ाइल का एक फ़ाइल नाम होता है जो किसी फ़ोल्डर के भीतर फ़ाइल का पता लगाने में मदद करता है।

- परिणामस्वरूप, किसी फ़ोल्डर के भीतर प्रत्येक फ़ाइल का एक अद्वितीय नाम होना चाहिए, हालांकि अलग-अलग फ़ोल्डरों में फ़ाइलों का एक ही नाम हो सकता है।

- फ़ाइल नाम में अक्षर, अंक और अन्य वर्ण दिखाई दे सकते हैं।

- एक फ़ाइल एक्सटेंशन, जो फ़ाइल प्रकार निर्दिष्ट करता है, आमतौर पर फ़ाइल नामों में शामिल किया जाता है।

140. **Answer: (D)**

Ctrl+P : मुद्रण शुरू करने के लिए नियंत्रण संवाद बॉक्स लाएँ।

Ctrl +Z : अंतिम अनुभाग को पूर्ववत करें

Ctrl +F6 : कार्यपुस्तिका विंडो के बीच स्विच करें

Shift+F3 : एक्सेल फॉर्मूला विंडो खोलें

Shift+F5 : सर्व बॉक्स ऊपर लाएँ

141. **Answer: (B)**

मदरबोर्ड कंप्यूटर सिस्टम के सबसे आवश्यक भागों में से एक है।

- मदरबोर्ड में अतिरिक्त बोर्ड जोड़ने के लिए कनेक्टर होते हैं।

- आमतौर पर, मदरबोर्ड में सीपीयू, BIOS, मेमोरी, मास स्टोरेज इंटरफ़ेस, सीरियल और समानांतर पोर्ट, विस्तार स्लॉट होते हैं।

- इसमें मानक परिधीय उपकरणों, जैसे डिस्प्ले स्क्रीन, कीबोर्ड और डिस्क ड्राइव को नियंत्रित करने के लिए आवश्यक सभी नियंत्रक होते हैं।

- मदरबोर्ड पर मौजूद ये सभी चिप्स मदरबोर्ड के चिपसेट के रूप में जाने जाते हैं।

142. **Answer: (D)**

फ़ंक्शन कुंजियाँ या F कुंजियाँ कीबोर्ड के शीर्ष पर पंक्तिबद्ध होती हैं और F1 से F12 तक लेबल की जाती हैं।

- ये कुंजियाँ शॉर्टकट के रूप में कार्य करती हैं, कुछ कार्य करती हैं, जैसे फ़ाइलें सहेजना, डेटा प्रिंट करना, या किसी पृष्ठ को ताज़ा करना।

- फ़ंक्शन कुंजियाँ फ़ंक्शन कुंजी पंक्ति पर होती हैं, जो संख्या कुंजी पंक्ति के ऊपर होती है और कीबोर्ड पर सबसे ऊंची पंक्ति होती है।

- F11 कुंजी आपको अपने ब्राउज़र में फुल-स्क्रीन मोड सक्रिय करने की अनुमति देती है।

- इसे दोबारा दबाने पर आप मेनू बार के साथ मानक दृश्य पर वापस आ जाएंगे।

143. **Answer: (B)**

एचडीएमआई का मतलब हाई डेफिनिशन मल्टीमीडिया इंटरफ़ेस है।

- यह एक ही केबल पर हाई-डेफिनिशन ऑडियो और वीडियो दोनों भेजने के लिए सबसे आम एचडी सिग्नल है।

- यह हाई-डेफिनिशन गैजेट्स जैसे डिजिटल कैमरा, गेम कंसोल और अन्य हाई-डेफिनिशन डिवाइस को एचडीएमआई पोर्ट वाले पीसी और टीवी से कनेक्ट करने के लिए एक डिजिटल इंटरफ़ेस है।

- यह असम्पीडित और संपीडित दोनों वीडियो और ऑडियो सिग्नल ले जा सकता है।

144. **Answer: (D)**

होम कुंजी अधिकांश भौतिक और वर्चुअल कीबोर्ड पर पाई जाने वाली कुंजी है और अधिकांश ऑपरेटिंग सिस्टम द्वारा समर्थित है।

- होम कुंजी का प्राथमिक कार्य कर्सर की स्थिति के आधार पर कर्सर को एक पंक्ति, दस्तावेज़, पृष्ठ, स्क्रीन या वर्कशीट सेल की शुरुआत में लौटाना है।
- होम कुंजी एप्लिकेशन या वर्ड प्रोसेसिंग प्रोग्राम के नेविगेशन में मदद करती है।
- इसका उपयोग आमतौर पर टेक्स्ट संपादन प्रोग्राम में कर्सर को लाइन की शुरुआत में ले जाने के लिए किया जाता है।
- होम कुंजी में एंड कुंजी की विपरीत कार्यक्षमता होती है।

145. **Answer: (A)**

विंडोज़ 7 एक ऑपरेटिंग सिस्टम है जिसे माइक्रोसॉफ्ट द्वारा 22 अक्टूबर 2009 को जारी किया गया था। यह विंडोज़ के पिछले (छठे) संस्करण, विंडोज़ विस्टा का उत्तराधिकारी है। विंडोज 7 में एक ग्राफिकल यूजर इंटरफ़ेस (जीयूआई) है जो आपको कीबोर्ड और माउस की मदद से स्क्रीन पर आइटम के साथ इंटरैक्ट करने की अनुमति देता है। हालाँकि, विंडोज 7 में "विंडोज टच" नामक एक सुविधा है, जो टचस्क्रीन इनपुट और मल्टीटच क्षमता की अनुमति देती है।

146. **Answer: (A)**

AutoCorrect सुविधा का उपयोग टाइपो त्रुटियों और गलत वर्तनी वाले शब्दों को AutoCorrect सुविधा के लिए सूची में दिए गए शब्दों के अनुसार स्वचालित रूप से ठीक करने के लिए किया जाता है।

- आपके पाठ में अक्सर उपयोग किए जाने वाले कुछ वाक्यांशों के लिए विशिष्ट स्वरूपण या वर्तनी लागू करने के लिए ऑटोकॉरेक्ट एक उपयोगी उपकरण है।
- स्वतः सुधार सुविधा न केवल गलत वर्तनी को ठीक करती है, बल्कि यह वाक्य के पहले अक्षर को बड़े अक्षरों में भी लिखती है।

147. **Answer: (A)**

इंटरनेट प्रोटोकॉल एड्रेस कंप्यूटर नेटवर्क से जुड़े प्रत्येक डिवाइस को सौंपा गया एक संख्यात्मक लेबल है जो संचार के लिए इंटरनेट प्रोटोकॉल का उपयोग करता है। एक आईपी पता दो मुख्य कार्य करता है: होस्ट या नेटवर्क इंटरफ़ेस पहचान और स्थान पता।

- इंटरनेट प्रोटोकॉल संस्करण 4 एक आईपी पते को 32-बिट संख्या के रूप में परिभाषित करता है।
- हालाँकि, इंटरनेट के विकास और उपलब्ध IPv4 पतों की कमी के कारण, IP पते के लिए 128 बिट्स का उपयोग करते हुए IP (IPv6) का एक नया संस्करण 1998 में मानकीकृत किया गया था।
- IPv6 परिनियोजन 2000 के दशक के मध्य से जारी है।

148. **Answer: (D)**

लेज़र प्रिंटर एक ऐसा प्रिंटर है जो टेक्स्ट और छवियों को कागज पर स्थानांतरित करने के लिए एक केंद्रित किरण या प्रकाश का उपयोग करता है। लेज़र प्रिंटर ने 600 डॉट प्रति इंच या उससे अधिक के विशिष्ट रिज़ॉल्यूशन के साथ, प्रिंट परियोजनाओं की साफ-सफाई बढ़ा दी है।

- लेज़र प्रिंट ऑपरेशन में, एक लेज़र बीम एक यांत्रिक सिलेंडर पर फायर करता है जिसे फोटोरिसेप्टर के रूप में जाना जाता है।
- इसके परिणामस्वरूप फोटोरिसेप्टर पर एक पैटर्न बनता है जो टोनर से लेपित हो जाता है।
- टोनर पैटर्न में कागज पर चिपक जाता है जो प्रिंट करने के लिए उपयोग किए जाने वाले सॉफ्टवेयर द्वारा निर्धारित होता है।
- अंत में, टोनर को कागज में मिलाने के लिए कागज को गर्म किया जाता है।

149. **Answer: (A)**

कंप्यूटिंग में, हाइपरलिंक, या बस एक लिंक, डेटा का एक संदर्भ है जिसे उपयोगकर्ता क्लिक या टैप करके अनुसरण कर सकता है।

- एक हाइपरलिंक पूरे दस्तावेज़ या दस्तावेज़ के भीतर एक विशिष्ट तत्व को इंगित करता है।
- हाइपरटेक्स्ट हाइपरलिंक वाला टेक्स्ट है। जिस टेक्स्ट से लिंक किया जाता है उसे एंकर टेक्स्ट कहा जाता है।
- वेबपेजों पर, हाइपरलिंक आमतौर पर बैंगनी या नीले रंग के होते हैं और कभी-कभी रेखांकित होते हैं।
- हाइपरलिंक को एक इंटरफ़ेस के रूप में सोचा जा सकता है जो किसी स्रोत को लक्ष्य से जोड़ता है।
- स्रोत पर हाइपरलिंक पर क्लिक करने से लक्ष्य पर नेविगेट किया जाएगा।

150. **Answer: (D)**

बूटस्ट्रैप एक कंप्यूटर को शुरू करने की प्रक्रिया है।

- यह उस प्रोग्राम को भी संदर्भित करता है जो स्टार्ट-अप के दौरान ऑपरेटिंग सिस्टम को इनिशियलाइज़ करता है।
- जब आप किसी कंप्यूटर को चालू या पुनरारंभ करते हैं, तो यह स्वचालित रूप से कमांड के अनुक्रम को लोड करता है जो सिस्टम को प्रारंभ करता है, हार्डवेयर की जांच करता है, और ऑपरेटिंग सिस्टम को लोड करता है।
- इस प्रक्रिया के लिए किसी इनपुट की आवश्यकता नहीं होती है और इसलिए इसे बूटस्ट्रैप प्रक्रिया माना जाता है।
- रिस्पॉन्सिव और मोबाइल-फर्स्ट वेबसाइट विकसित करने के लिए बूटस्ट्रैप सबसे लोकप्रिय सीएसएस फ्रेमवर्क है।