

## All India Scholarship Test for CISF Fireman Constable: Complete Questions with Detailed Solutions

1. In the following question, select the related word pair from the given alternatives.  
Book : Pages :: ? : ?  
(a) Writer : Write (b) Pen : Write  
(c) Car : Tyre (d) Tyre : Round
2. In the following question, select the related number from the given alternatives.  
553 : 551 :: 447 : ?  
(a) 443 (b) 445  
(c) 441 (d) 451
3. In the following question, select the related letter pair from the given alternatives.  
FOM : CLJ :: ? : ?  
(a) RQS : POQ (b) RAX : OXU  
(c) JKN : MNQ (d) ACD : CEF
4. In the following question, select the odd word pair from the given alternatives.  
(a) Zinc – Metal (b) Aluminium – Metal  
(c) Crocodile – Water (d) Gold – Metal
5. In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.  
(a) 9 – 81 (b) 8 – 64  
(c) 6 – 36 (d) 7 – 47
6. In the following question, select the odd letter/letters from the given alternatives.  
(a) BE (b) SU  
(c) AD (d) OR
7. Arrange the given words in the sequence in which they occur in the dictionary.  
1. Scrape 2. Scramble  
3. Scream 4. Scornful  
5. Scour  
(a) 12354 (b) 35421  
(c) 51243 (d) 45213
8. In the following question, select the missing number from the given series.  
9, 13, 18, 24, 31, ?  
(a) 39 (b) 35  
(c) 40 (d) 37
9. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.  
XPK, VNJ, TLH, RJE, ?  
(a) PHB (b) OIA  
(c) OIB (d) PHA
10. In a row of swimmers Manish, is 23rd from the left end. Ramesh is 11 ranks to the left of Manish. If Ramesh is 16th from right end, then how many swimmers are there in this row?  
(a) 28 (b) 27  
(c) 30 (d) 29
11. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.  
Resources  
(a) Source (b) Rise  
(c) Eour (d) Sour
12. In a certain code language, "FRAME" is written as "79635" and "TOWEL" is written as "21854". How is "WORM" written in that code language?  
(a) 9376 (b) 8193  
(c) 9183 (d) 1593
13. In a certain code language, '-' represents 'x', '÷' represents '+', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.  
 $12 - 6 + 4 \times 10 \div 16 = ?$   
(a) 14 (b) 2  
(c) 24 (d) 5
14. The following equation is incorrect. Which two signs should be interchanged to correct the equation?  
 $18 - 2 \div 20 + 5 \times 16 = 69$   
(a) ÷ and - (b) + and x  
(c) + and ÷ (d) - and +
15. If  $-2@-4 = -8$ ,  $-1@-8 = -8$  and  $-1@6 = 6$ , then find the value of  $-1@7 = ?$   
(a) 95 (b) -88  
(c) 82 (d) 7
16. Which of the following terms follows the trend of the given list?  
XXXXXXYY, XXXXXYXY, XXXXYXXX, XXXYXXXX, XXYXXXXY, \_\_\_\_\_.  
(a) YXXXXXXY (b) XXXXXXXY  
(c) YXXXXXXY (d) XXXXXYXY



17. A marketing executive goes on his field work and walks 2 km North, then he turns West and walks 6 km, then he turns North and walks 7 km, and then he turns to his right and walks 6 km. Where is he now with respect to his starting position?

- (a) 5 km North (b) 9 km North  
(c) 9 km South (d) 5 km South

18. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

**Statement I:** All cakes are pastries

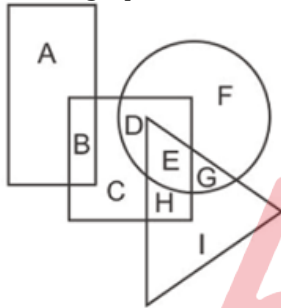
**Statement II:** Some bread are cakes

**Conclusion I:** No pastries are bread

**Conclusion II:** Some bread are pastries

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

19. In the following figure, rectangle represents Chefs, circle represents Choreographers, triangle represents Divers and square represents Americans. Which set of letters represents Americans who are either Choreographers or Divers?



- (a) CDE (b) EGI  
(c) DEH (d) BCH

20. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

MAN, ODR, QGV, SJZ, ?

- (a) UMD (b) VNC  
(c) UNC (d) VMD

21. In the following question, select the missing number from the given series.

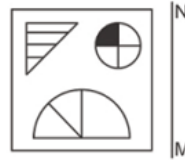
192, 186, 180, 174, ?, 162

- (a) 166 (b) 168  
(c) 164 (d) 170

22. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

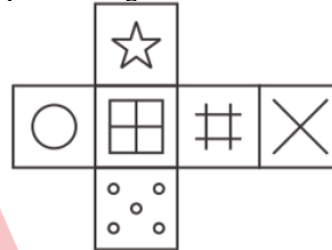
- (a) (13, 26, 39) (b) (15, 30, 45)  
(c) (17, 34, 51) (d) (19, 38, 59)

23. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



- (a) (b)   
(c) (d)

24. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



- (a) (b)   
(c) (d)

25. Rohit remembers that his birthday is before 12th December and after 6th December. His wife remembers that Rohit's birthday is after 7th December. His son remembers that Rohit's birthday is before 10th December. On which date of December is Rohit's birthday?

- (a) 8 (b) 9  
(c) 10 (d) 8 or 9

26. The surface of which of these planets is not solid?

- (a) Jupiter (b) Mars  
(c) Venus (d) Mercury

27. Which of these is not a port city on the Arabian Sea?

- (a) Panaji (b) Vishakhapatnam  
(c) Mumbai (d) Mangalore

28. Raslila dance is associated with which God?

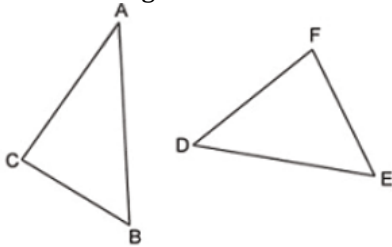
- (a) Lord Shiva (b) Lord Ganesha  
(c) Lord Indra (d) Lord Krishna

29. Which of the following is an Indian online retail company?

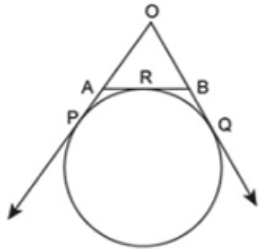
- (a) Alibaba Group (b) Amazon  
(c) eBay (d) Jabong

30. Sir creek is a disputed territory between India and \_\_\_\_\_.
- (a) Myanmar (b) Nepal  
(c) Pakistan (d) Bangladesh
31. Which of these is essential to keep bones strong in the body?
- (a) Iodine (b) Zinc  
(c) Fats (d) Calcium
32. Who was the first lady Governor of an Indian State?
- (a) Sucheta Kripalani (b) Padmaja Naidu  
(c) Tarkeswari Sinha (d) Sarojini Naidu
33. Operation Flood programme was introduced in
- (a) 1951 (b) 1970  
(c) 1975 (d) 1985
34. Article 1 of the Constitution declares India as
- (a) federal State (b) quasi-federal state  
(c) unitary State (d) union of States
35. Which place is said to be the Manchester of South India?
- (a) Coimbatore (b) Salem  
(c) Thanjavur (d) Chennai
36. Largest-Indian state in terms of area is:
- (a) Madhya Pradesh (b) Maharashtra  
(c) Rajasthan (d) Karnataka
37. The first Indian Governor General of Independent India was:
- (a) Surendra Nath (b) C. Rajagopalchari  
(c) Rajendra Prasad (d) B. R. Ambedkar
38. The Chilka lake region is situated between the deltas of:
- (a) Krishna and Kaveri  
(b) Godavari and Krishna  
(c) Ganga and Mahanadi  
(d) Mahanadi and Godavari
39. The compounds leading to origin of life were :
- (a) Urea and nucleic acids  
(b) Amino acids and urea  
(c) Proteins and nucleic acid  
(d) Iron and amino acids
40. Which of the following is not correctly matched?
- (a) Anemometer – Wind speed  
(b) Ammeter–Electric Current  
(c) Tachometer– Pressure Difference  
(d) Pyrometer–High Temperature
41. Name one famous poet of Delhi Sultanate who was adorned with title of “The Parrot of Hindustan”?
- (a) Zia-Uddin Barani (b) Utbi  
(c) Alberuni (d) Amir Khusro
42. In a Jugalbandhi between Pandit Hariprasad Chaurasia and Ustad Zakir Hussain, the musical instruments being played respectively are
- (a) Sitar and Sarod (b) Flute and Violin  
(c) Tabla and Flute (d) Flute and Tabla
43. The judiciary in India is
- (a) Under prime Minister’s control  
(b) Under president’s control  
(c) Under parliament’s control  
(d) Independent
44. Which of the following did not participate in sepoy mutiny of 1857?
- (a) Nana Saheb (b) Tatiya Tope  
(c) Lakshmi Bai (d) Bhagat Singh
45. Booker prize is given in the field of
- (a) Science (b) Medicine  
(c) Literature (d) Social Services
46. Gandhiji was influenced by the philosophy of
- (a) Karl Marx (b) Tolstoy  
(c) Lenin (d) None of these
47. JIMEX relates to
- (a) Japan-India Joint Military Exhibition  
(b) Japan-India Maritime Exercise  
(c) Japan-India Joint Motor vehicle Exhibition  
(d) Japan-India Joint Missile Programme
48. Which among the following award/title belongs to wrestling?
- (a) Arjuna Award (b) Dhyan Chand Award  
(c) Santosh Trophy (d) Bharat Kesari
49. Suryoday Small Finance Bank launched the “Suryoday Health and Wellness Savings Account” which offers a top-up health insurance of \_\_\_\_\_.
- (a) Rs 2.5 lakh (b) Rs 25 lakh  
(c) Rs 35 lakh (d) Rs 3.5 lakh
50. Rajiv Gandhi Khel Ratna Award has been renamed after which of the following sports personality?
- (a) Dhyan Chand (b) Milkha Singh  
(c) Sunil Gavaskar (d) KD Singh Babu
51. Calculate the value of  $0.77777 + 0.7777 + 0.777 + 0.77 + 0.7 + 0.07$
- (a) 3.86274 (b) 3.80247  
(c) 3.85274 (d) 3.87247
52. A crate of egg holds one rotten egg out of every 25 egg in it. If 5 out of 8 rotten eggs are unusable and there are total 10 unusable eggs in the crate, then calculate the number of eggs in the crate.
- (a) 380 (b) 400  
(c) 420 (d) 440

53. What is the area (in square units) of the figure enclosed by the x-axis, the y-axis and the line  $x + 2y = 6$  ?  
 (a) 3 (b) 6  
 (c) 9 (d) 12
54. What is the number of decimal places in a cube root of a number having 27 decimal places ?  
 (a) 3 (b) 6  
 (c) 9 (d) 27
55. Which of the following condition is sufficient to state that the triangle ABC and DEF are similar?



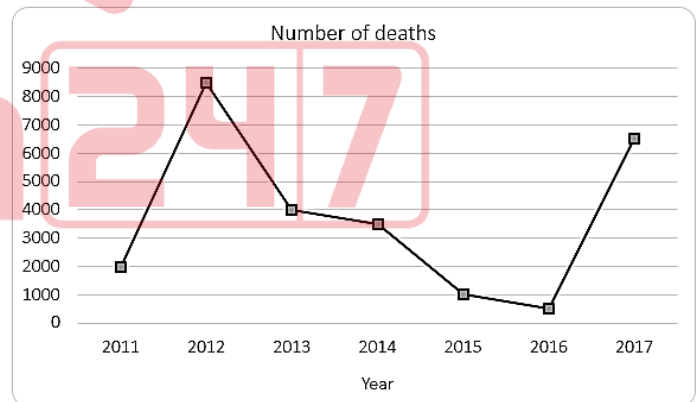
- (a)  $\angle A = \angle D$  and  $\angle C = \angle F$  (b)  $\angle A > \angle D$  and  $\angle B = \angle E$   
 (c)  $\angle B = \angle E$  and  $\angle C < \angle F$  (d) All option are correct.
56. Which of the following option is CORRECT about the figure shown below?



- (a)  $OA - AR = OB + BR$  (b)  $OA + AR = OB - BR$   
 (c)  $OA + AR = OB + BR$  (d) None of these
57. If the edge of a cube is increased by 10%, then what will be the percentage increase in its volume ?  
 (a) 30 (b) 31.3  
 (c) 136.1 (d) 33.1
58. Rs 18200 is divided among X, Y and Z in the ratio of  $1/3 : 1/4 : 1/2$ . What is the share (in Rs) of X ?  
 (a) 7000 (b) 4400  
 (c) 4200 (d) 5600
59. In what ratio must a mixture of 20% milk strength be mixed with that of 60% milk strength so as to get a new mixture of 25% milk strength ?  
 (a) 7 : 1 (b) 4 : 1  
 (c) 5 : 2 (d) 9 : 2
60. What is the average of first 39 even numbers ?  
 (a) 39 (b) 40  
 (c) 20 (d) 68
61. A sum becomes Rs 2286 in 3 years and Rs 2448 in 4 years at simple interest. What is the rate (in percentage) of interest per annum?  
 (a) 10 (b) 9  
 (c) 8 (d) 11

62. Selling price of a fan is Rs 4644. If profit percentage is 29%, then what is the cost price (in Rs) of fan?  
 (a) 5900 (b) 3500  
 (c) 3800 (d) 3600
63. The marked price of a helmet is 30% more than its cost price. If the helmet is sold for Rs 744 after a discount of Rs 36, then what will be the profit percentage?  
 (a) 24 (b) 18  
 (c) 21 (d) 27
64. Which of the following statement (s) is/are TRUE?  
 I.  $4\sqrt{3} > 3\sqrt{4}$   
 II.  $8\sqrt{2} > 2\sqrt{8}$   
 (a) Only I (b) Only II  
 (c) Neither I nor II (d) Both I and II
65. S, T and U together can complete a work in 30 days. If the ratio of efficiency of S, T and U is 20 : 15 : 12 respectively, then in how many days U alone can complete the same work?  
 (a)  $195/2$  (b)  $235/2$   
 (c)  $225/2$  (d)  $215/2$
66. A train is moving at the speed of 90 km/hr. How many seconds it will take to cover a distance of 2275 meter?  
 (a) 96 (b) 91  
 (c) 86 (d) 93

**Directions (67-70):** The line graph shows the number of deaths due to rail accidents in a certain state. Study the diagram and answer the following questions.



67. In which year were the number of deaths greater than that of the previous year ?  
 (a) 2013 (b) 2012  
 (c) 2014 (d) 2015
68. What was the difference in the number of deaths between the years 2012 and 2015?  
 (a) 6500 (b) 8500  
 (c) 7500 (d) 5500
69. The number of deaths in 2017 were greater than that in 2013 by \_\_\_\_\_.  
 (a) 50% (b) 35%  
 (c) 62.5% (d) 37.5%

70. If on an average Rs 5 lakhs was paid as insurance for each death due to a rail accident, then how much insurance was paid (in Rs crore) in the year 2014 ?  
 (a) 225 (b) 275  
 (c) 125 (d) 175
71. What must be the length (in cm) of the diagonal of a rectangle if its area and breadth are  $120 \text{ cm}^2$  and 8 cm respectively?  
 (a) 34 (b) 17  
 (c) 15 (d) 30
72. If the measure of the interior angle of a regular polygon is  $90^\circ$  greater than the measure of its exterior angle, then how many sides does it have ?  
 (a) 8 (b) 9  
 (c) 10 (d) 12
73. Find the volume (in  $\text{cm}^3$ ) of a hemisphere of diameter 21 cm.  
 (a) 2235.5 (b) 2425.5  
 (c) 2040 (d) 1860
74. What is the value of  $(\operatorname{cosec}30^\circ - 1/\sqrt{3})$ ?  
 (a)  $(2\sqrt{3}-1)/\sqrt{3}$  (b)  $(\sqrt{3}-4)/2\sqrt{3}$   
 (c)  $-1/\sqrt{3}$  (d)  $2/\sqrt{3}$
75. In  $\Delta XYZ$  measure of angle Y is  $90^\circ$ . If  $\operatorname{cosec} X = 13/12$ , and  $XY = 1\text{cm}$ , then what is the length (in cm) of side YZ?  
 (a) 2.6 (b) 1.5  
 (c) 2.4 (d) 2
76. In the sentence identify the segment which contains the grammatical error.  
 We had to postpone the meeting because only the few persons were present there.  
 (a) We had to postpone the meeting  
 (b) because only the few persons  
 (c) were present there  
 (d) No error
77. Improve the bracketed part of the sentence.  
 Play well lest you (may) lose your spot.  
 (a) might (b) should  
 (c) could (d) No improvement
- Directions (78-79):** Select the most appropriate word to fill in the blank.
78. Many teachers ..... the lack of professional freedom as the reason for leaving the job.  
 (a) cited (b) explained  
 (c) claimed (d) argued
79. A public servant who is guilty will not ..... punishment and no innocent person will be punished.  
 (a) be (b) flee  
 (c) defend (d) escape

80. In the following question, choose the word opposite in meaning to the given word.  
**Connubial**  
 (a) hymeneal (b) nuptial  
 (c) genial (d) cloistered
81. In the following question, out of the four alternatives, choose the one which best expresses the meaning of the given word.  
**Pious**  
 (a) meek (b) reverent  
 (c) grand (d) irritable
82. Select the wrongly spelt word.  
 (a) Insicive (b) Prolix  
 (c) Posterity (d) Peruse
83. Select the correctly spelt word.  
 (a) Gruelling (b) Nonplussed  
 (c) Frigate (d) Burdensum
- Directions (84-85):** Select the word which means the same as the group of words given.
84. The rejection of all religious and moral principles, in the belief that life is meaningless  
 (a) Nihilism (b) Certitude  
 (c) Credence (d) Fidelity
85. Be an expression of or give a tangible or visible form to an idea, quality, or feeling  
 (a) Spectre (b) Revenant  
 (c) Embody (d) Apparition
86. In the following question, out of the four alternatives, choose the one which best expresses the meaning of the given word.  
**Tangible**  
 (a) palpable (b) immaterial  
 (c) aerial (d) discarnate
- Directions (87-88):** Select the most appropriate meaning of the given idiom.
87. Bad patches  
 (a) came across bad sail  
 (b) went through many illnesses  
 (c) had a bumpy car ride  
 (d) had many professional difficulties
88. In Vain  
 (a) without success or a result.  
 (b) flow without stopping  
 (c) be highly successful  
 (d) to be confused
89. In the following question, choose the word opposite in meaning to the given word.  
**Inalienable**  
 (a) undeniable (b) repealable  
 (c) inviolable (d) irrevocable

**90. Improve the bracketed part of the sentence.**

His miserable condition (made us wept).

- (a) made us weep. (b) made us to weep.  
(c) made us to wept. (d) No improvement

**91. In the sentence identify the segment which contains the grammatical error.**

Between you and I, you are more intelligent than I.

- (a) Between you and I (b) you are more  
(c) intelligent than I. (d) No error

**92. Given below are four jumbled sentences. Select the option that gives their correct order.**

- A. Environmental impact assessment was found to be "completely inadequate".  
B. The Centre has recommended a biodiversity study of.  
C. By a credible international institute since the current.  
D. The proposed 3,097 MW Etalin Hydroelectric Project in Arunachal Pradesh.

- (a) CABD (b) BDCA  
(c) ABCD (d) DCBA

**93. 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.**

People speak English all over the world.

- (a) English is spoken all over the world.  
(b) English was spoken all over the world.  
(c) English was spoken by people.  
(d) English is spoken by people.

**94. 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.**

The boy said, "I did the work yesterday."

- (a) The boy said that he did the work yesterday.  
(b) The boy said that he had done the work the day before.  
(c) The boy said that he did the work the day before.  
(d) The boy said that he had done the work yesterday.

**95. Given below are four jumbled sentences. Select the option that gives their correct order.**

- A. For not providing clean air and water.  
B. On why they should not be made liable.  
C. The court issued notices to all the States for their responses.  
D. To pay compensation to people.

- (a) ACDB (b) DBCA  
(c) CBDA (d) BDAC

**Directions (96-100):** Read the passage carefully and choose the best answer to fill the space provided out of the four alternatives.

One of the \_\_\_\_\_ (1) caves in the country, the Ajanta Caves are 30 odd rock-cut caves that date back to the second century BC. These Buddhist monuments are known for their murals, paintings and sculptures that have defined Indian art over time.

Today, they are a UNESCO World Heritage Site and a \_\_\_\_\_ (2) monument under the Archaeological Survey of India. Even though there were 30 caves, they were built in two phases and provided \_\_\_\_\_ (3) to Buddhist monks who came here to meditate during the monsoon.

Even today, the caves can cast a spell on you with their artistic beauty and give you a \_\_\_\_\_ (4) into our history. An inspiration to today's Indian art, the paintings that are centuries old tell a story of our ancestors and how they lived their life. Ajanta Caves are a must-visit for any art and history \_\_\_\_\_ (5).

**96. Select the most appropriate option for blank No.1**

- (a) Propitious (b) Unembellished  
(c) Highest (d) Oldest

**97. Select the most appropriate option for blank No.2**

- (a) Protected (b) Powerful  
(c) Outlandish (d) Vanquishing

**98. Select the most appropriate option for blank No.3**

- (a) Direction (b) Opportunity  
(c) Shelter (d) Credit

**99. Select the most appropriate option for blank No.4**

- (a) Peek (b) Look  
(c) Invest (d) Succeed

**100. Select the most appropriate option for blank No.5**

- (a) Collection (b) Lover  
(c) Records (d) Research



**Solutions**

1. (c): Book have pages  
Similarly, car have tyre

2. (b):  $553 - 2 = 551$   
 $447 - 2 = 445$

3. (b): -3 series

4. (c): Crocodile is not a water.

5. (d):  $9 - 9^2$   
 $8 - 8^2$   
 $6 - 6^2$   
 $7 - 7^2 = 49 \neq 47$

6. (b): +3 series except SU (+2 series)

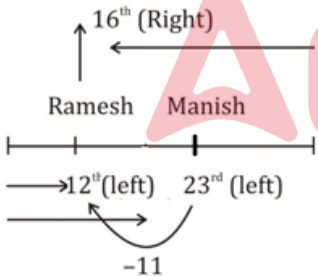
7. (d): 4. Scornful  
5. Scour  
2. Scramble  
1. Scrape  
3. Scream

8. (a):  

$$\begin{array}{cccccc} 9 & & 13 & & 18 & & 24 & & 31 & & 39 \\ & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow \\ & +4 & & +5 & & +6 & & +7 & & +8 & & \end{array}$$

9. (d):  

$$\begin{array}{cccc} X \xrightarrow{-2} V \xrightarrow{-2} T \xrightarrow{-2} R \xrightarrow{-2} P \\ P \xrightarrow{-2} N \xrightarrow{-2} L \xrightarrow{-2} J \xrightarrow{-2} H \\ K \xrightarrow{-1} J \xrightarrow{-2} H \xrightarrow{-3} E \xrightarrow{-4} A \end{array}$$

10. (b):  


$\therefore$  Total number of Swimmers  
 $= 16 + 12 - 1$   
 $= 27$

11. (b): Rise

12. (b):  

F	R	A	M	E	T	O	W	L
7	9	6	3	5	2	1	8	4

 WORM  $\rightarrow$  8193

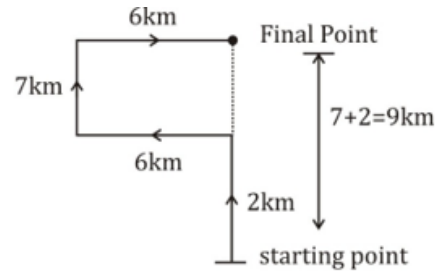
13. (c):  $12 - 6 + 4 \times 10 \div 16$   
 $\Rightarrow 12 \times 6 \div 4 - 10 + 16$   
 $\Rightarrow 18 - 10 + 16$   
 $\Rightarrow 34 - 10$   
 $\Rightarrow 24$

14. (a):  $18 - 2 \div 20 + 5 \times 16 = 69$   
 $\Rightarrow 18 \div 2 - 20 + 5 \times 16 = 69$   
 $\Rightarrow 9 - 20 + 5 \times 16 = 69$   
 $\Rightarrow 9 - 20 + 80 = 69$   
 $\Rightarrow 89 - 20 = 69$   
 $\Rightarrow 69 = 69$

15. (d):  $-2 \times -4 = 8 \times (-1) = -8$   
 $-1 \times -8 = 8 \times (-1) = -8$   
 $-1 \times 6 = -6 \times (-1) = 6$   
 $-1 \times 7 = -7 \times (-1) = 7$

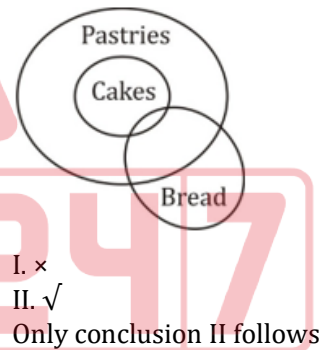
16. (c): XYXXXXXY

17. (b):



He is 9km in North from the starting point.

18. (b):



19. (c): DEH

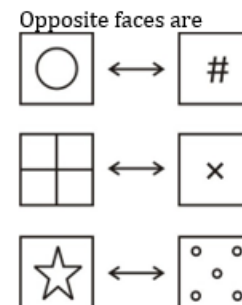
20. (a): +2, +3, +4

21. (b): -6 series

22. (d):  $\times 2, \times 3$  series except (19, 38, 59)

23. (d):

24. (b):



Option (b) cannot be formed.

25. (d): A/c to Rohit, his birthday may be on 7, 8, 9, 10, 11<sup>th</sup> of Dec.  
A/c to his wife, his birthday may be on 8, 9, 10, 11<sup>th</sup> of Dec.  
And, A/c to his son, his birthday may be on 8, 9<sup>th</sup> of Dec.  
From all three observations, it concluded that Rohit's birthday is either on 8<sup>th</sup> or 9<sup>th</sup> Dec.
26. (a): Inner planets such as Mercury, Venus, Earth, the Moon, Mars and its moons, the asteroids, the moons of the outer planets, and Kuiper Belt objects have solid surfaces. The outer planets Jupiter, Saturn, Uranus and Neptune are gas giants. They do not, have solid surfaces.
27. (b): Visakhapatnam is a port city located on the southeast coast of Bay of Bengal. It is often called as "The Jewel of the East Coast". It is the largest city in Andhra Pradesh.
28. (d): Raslila is a folk dance drama of northern India mainly Uttar Pradesh, based on scenes from the life of Krishna. It is often freely rendered as "the dance of love". The Indian classical dance of Kathak evolved from the Raslila of Braj.
29. (d): Jabong is an Indian fashion and lifestyle e-commerce portal selling apparel, footwear, fashion accessories, beauty products, fragrances, home accessories and other fashion and lifestyle products. The company is headquartered in Gurgaon, NCR.
30. (c): Sir Creek is a 96 km strip of water on the border of India and Pakistan. The creek, which opens up into the Arabian Sea, divides the Gujarat state of India from the Sindh province of Pakistan. The creek itself is located in uninhabited marshland.
31. (d): The body needs calcium to maintain strong bones. Almost all calcium is stored in bone and teeth, where it supports their structure and hardness. The body also needs calcium for muscles to move and for nerves to carry messages between the brain and body parts.
32. (d): Sarojini Naidu was the first female to become the governor of an Indian state.
33. (b): Operation Flood was started by National Dairy Development Board (NDDB) in 1970s. The objective of this programme was to create a nationwide milk grid. The result was that India became the largest producer of Milk and Milk Products. Operation flood is called White Revolution of India.
34. (d): Article 1 of the Constitution declares that India, that is Bharat, shall be a Union of States.
35. (a): Coimbatore is referred to as the "Manchester of South India" due to its cotton production and textile industries.
36. (c): Rajasthan is the largest state of area with a geographical area of 342239 km<sup>2</sup>. It constitutes 10.41 per cent of India's area. Madhya Pradesh, Maharashtra and Uttar Pradesh come next in terms of area.
37. (b): Lord Louis Mountbatten was the first Governor General of independent India after having overseen independence. He was followed by C. Rajagopalachari who was the first Governor General of India of Indian origin. He remained India's Governor-General until the Constitution was approved and came into existence on 26 January 1950.
38. (d): The Chilka Lake region lies in between the deltas of Mahanadi and Godavari. It is situated to the south west of the Mahanadi delta spread over the Puri, Khurda and Ganjam districts of Odisha. It is the largest brackish water lake in Asia.
39. (c): Proteins and nucleic acids, essential for cell operations and reproductive processes, form two prime chemical compounds of life. They are considered as organic compounds responsible for the origin of life. Proteinoid theory states that protein molecules evolved first, while naked-gene hypothesis states that nucleic acid originated first and controlled the formation of proteins.
40. (c): A tachometer is an instrument that measures the rotation speed of a shaft or disk, as in a motor or other machine. The device usually displays the revolutions per minute (RPM) on a calibrated analogue dial, but digital displays are increasingly common.
41. (d): Amir Khusro, a Sufi musician, poet and scholar, was known as Tuti-e-Hind (Parrot of India). He was not only a notable poet but also a prolific and seminal musician. He wrote poetry primarily in Persian, but also in Hindavi.
42. (d): Pandit Hariprasad Chaurasia is an Indian classical flutist who plays in the North Indian tradition. Ustad Zakir Hussain is an Indian tabla player, musical producer, film actor and composer.
43. (d): There is a single integrated judicial system in India. It is organised system in India. It is organised on pyramidal form. At the apex of the entire judicial system stands the Supreme Court. It is an independent body. All the courts of India are under the control of Supreme Court.



44. (d): The Indian Rebellion of 1857 is also called the Indian Mutiny, the Sepoy Mutiny, North India's First War of Independence or North India's first struggle for independence. It began on 10 May 1857 at Meerut, as a mutiny of sepoys of the British East India Company's army. Participants in Sepoy mutiny of 1857- Nana Saheb, Tantiya Tope, Lakshmi Bai, Begum Hazrat Mahal, Kunwar Singh.
45. (c): The Booker Prize or Man Booker Prize for Fiction is prestigious British award given annually to a full-length novel in English. Booker McConnell, a multinational company, established the award in 1968 to provide a counterpart to the Prix Goncourt in France. It is awarded each year for the best original novel by a citizen of the Commonwealth of Nations, the Republic of Ireland, or Zimbabwe.
46. (b): Gandhi was greatly influenced by Leo Tolstoy, through his book 'The Kingdom of God is Within You' and his essay on 'Christianity and Patriotism'. Tolstoy's ideal of "simplicity of life and purity of purpose" influenced Gandhi deeply. Gandhi's "love as law of life" and principles of non-violence were deeply embedded in the writings of Tolstoy.
47. (b): Exercise JIMEX is a military exercise between India and Japan.
48. (d): Indian Wrestler Labhanshu Sharma won the Bharat Kesari Wrestling Dangal 2021 organised in Tamil Nadu. 20 years since the formation of Uttarakhand, Labhanshu is the first to win the title of Bharat Kesari for the state.
49. (b): Suryoday Small Finance Bank launched the "Suryoday Health and Wellness Savings Account", a premium savings account product aimed at ensuring that the customers' wealth not only grows but they and their families are also taken care of on their health. This offers top-up health insurance of Rs 25 lakhs, annual healthcare package and on-call emergency ambulance medical care Services.

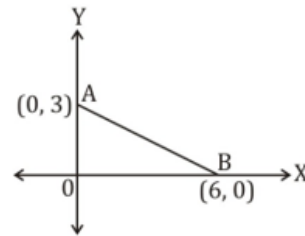


50. (a): Prime Minister Narendra Modi has announced that Rajiv Gandhi Khel Ratna Award will be renamed as Major Dhyana Chand Khel Ratna Award.

51. (d):  $0.77777 + 0.7777 + 0.777 + 0.77 + 0.7 + 0.07 = 3.87247$

52. (b): Total unusual eggs = 10  
 $\therefore$  Total rotten eggs = 16  
 & total number of eggs =  $25 \times 16 = 400$

53. (c):



We have,

$$x + 2y = 6$$

$$\Rightarrow \frac{x}{6} + \frac{y}{3} = 1$$

Compare,  $\frac{x}{a} + \frac{y}{b} = 1$

$$\Rightarrow a = 6, b = 3$$

$$\text{Ar. } \triangle AOB = \frac{1}{2} \times 6 \times 3 = 9 \text{ sq. unit}$$

54. (c): Let us consider the number is N which consists of 27 decimal places.

For example 1.728 is a number with 3 decimal places and can be written as

$$\frac{1728}{1000} \text{ or } \frac{1728}{10^3}$$

Similarly N can be written as

$$N = \frac{N_1}{10^{27}}$$

Cube root of this number will be

$$\sqrt[3]{\left(\frac{N_1}{(10)^{27}}\right)} = \left[\frac{N_1}{(10)^{27}}\right]^{\frac{1}{3}} = \frac{N_1^{\frac{1}{3}}}{10^{27 \times \frac{1}{3}}} = \frac{x}{10^9}, \text{ where } x \text{ is cube root of } N_1$$

Therefore the answer will have 9 decimal places as x is divided by  $10^9$ .

55. (a):

For  $\triangle ABC \sim \triangle DEF$ , we need to have at least two pairs of corresponding angles equal. Thus according to the first option, we have,  
 $\angle A = \angle D$  &  $\angle C = \angle F$

56. (c):  $OP = OQ$  {tangents drawn from the point outside of the circle are equal}

$$\text{Or } OA + AP = OB + BQ$$

$$\text{Or } OA + AR = OB + BR$$

57. (d):

$$10\% = \frac{1}{10}$$

$$\frac{10}{10} \quad \frac{11}{11}$$

$$\text{So, } \frac{10}{10} \quad \frac{11}{11}$$

$$\frac{10}{1000} \quad \frac{11}{1331}$$

$$\text{or } \frac{10}{100} \quad \frac{133.1}{1331}$$

$$\text{Percentage increase} = 33.1\%$$

58. (d):

$$X: Y: Z = \frac{1}{3} : \frac{1}{4} : \frac{1}{2} = 4: 3: 6$$

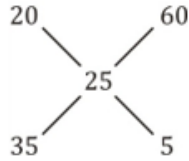
$$\Rightarrow X: Y: Z = 4: 3: 6$$

We have

$$13 \text{ units} = 18200$$

$$\therefore 4 \text{ units} = \frac{18200}{13} \times 4 = 5600$$

59. (a):



Req. ratio = 7: 1

60. (b):

Sum of first 39 even numbers

$$2 + 4 + 6 + \dots$$

It is an A.P. where,

$$a = 2, d = 2, n = 39$$

$$S_n = \frac{n}{2} [2a + (n-1) \cdot d]$$

$$\Rightarrow S_{39} = \frac{39}{2} [2 \times 2 + 38 \times 2] = 39 \times 40$$

$$\text{Avg. of first 39 even numbers} = \frac{39 \times 40}{39} = 40$$

61. (b): Interest of one year = 2448 - 2286 = 162

$$\text{Interest of three year} = 162 \times 3 = 486$$

$$\text{Principal} = 2286 - 486 = 1800$$

$$\text{Rate \%} = \frac{162}{1800} \times 100 = 9\%$$

62. (d):

$$\text{Selling price of fan} = 4644$$

$$\text{Profit \%} = 29\%$$

$$\text{We have, } 129 \text{ units} = 4644$$

$$\therefore 100 \text{ units} = \text{CP of Fan} = \frac{4644}{129} \times 100 = \text{Rs. } 3600$$

63. (a):

$$30\% = \frac{3}{10}$$

$$\text{Mark price} = \text{selling price} + \text{Discount}$$

$$= 744 + 36 = \text{Rs. } 780$$

$$\text{We have, } 13 \text{ unit} = \text{Rs. } 780$$

$$\therefore 10 \text{ unit} = \text{cost price} = \frac{780}{13} \times 10 = \text{Rs. } 600$$

$$\text{Profit\%} = \frac{744-600}{600} \times 100$$

$$= \frac{144}{600} \times 100$$

$$= 24\%$$

64. (d):

We have,

$$4\sqrt{3} > 3\sqrt{4}$$

$$4 \times 1.73 > 3 \times 2$$

$$6.92 > 6$$

$\therefore$  Statement I is true

$$\text{And } 8\sqrt{2} > 2\sqrt{8}$$

$$8\sqrt{2} > 2.2\sqrt{2}$$

$$8\sqrt{2} > 4\sqrt{2}$$

$\therefore$  Statement II is true.

65. (b):

$$\text{Total work} = \text{days} \times \text{efficiency}$$

$$= 30 \times 47$$

$$U \text{ alone can complete the work} = \frac{30 \times 47}{12} = \frac{235}{2} \text{ days.}$$

66. (b):

$$\text{Time} = \frac{\text{Distance}}{\text{speed}} = \frac{2275}{90 \times \frac{5}{18}} = 91 \text{ sec.}$$

67. (b): Out of the given options, number of deaths decreases except 2012.

68. (c): Required percentage = 8500 - 1000 = 7500

69. (c):

$$\text{Required percentage} = \frac{6500-4000}{4000} \times 100 = 62.5\%$$

70. (d): Number of death in the year 2014 = 3500

$$\therefore \text{Amount of insurance that was paid in 2014} = 3500 \times 500000 = 175 \text{ crore}$$

71. (b):

$$\text{Area of rectangle} = \ell \cdot b = 120 \text{ cm}^2$$

$$\Rightarrow \ell \cdot 8 = 120$$

$$\text{Or } \ell = 15 \text{ cm}$$

$$\text{Diagonal} = \sqrt{\ell^2 + b^2}$$

$$= \sqrt{15^2 + 8^2}$$

$$= \sqrt{225 + 64}$$

$$= \sqrt{289}$$

$$= 17 \text{ cm.}$$

72. (a):

We have,

$$\frac{(n-2) \times 180}{n} - \frac{360}{n} = 90$$

$$\Rightarrow \frac{n-4}{n} = \frac{1}{2}$$

$$\Rightarrow n = 8$$

73. (b):

$$\text{Diameter of hemisphere} = 21 \text{ cm}$$

$$\text{Radius} = \frac{21}{2} \text{ cm}$$

$$\text{Volume of hemisphere} = \frac{2}{3} \pi r^3$$

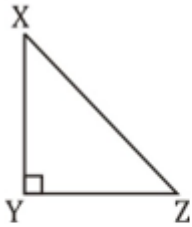
$$= \frac{2}{3} \cdot \frac{22}{7} \cdot \frac{21}{2} \times \frac{21}{2} \times \frac{21}{2}$$

$$= 2425.5 \text{ cm}^3$$

74. (a):

$$\begin{aligned} \operatorname{cosec} 30^\circ &= \frac{1}{\sin 30^\circ} \\ &= 2 - \frac{1}{\sqrt{3}} \\ &= \frac{2\sqrt{3}-1}{\sqrt{3}} \end{aligned}$$

75. (c):



$$\operatorname{cosec} X = \frac{13}{12} = \frac{XZ}{YZ}$$

$$\therefore XY = 5$$

We have, 5 unit = 1 cm.

$$\therefore 12 \text{ unit} = \frac{1}{5} \times 12 = 2.4 \text{ cm}$$

76. (b): Use “only few persons were present there”.

**Few** is a quantifier used with plural countable nouns. Without the article “a”, **few** emphasizes a small number of something. Adding the article removes the emphasis—a **few** means “some”. While, adding the definite article “the” means not many, but all of those.

77. (b): “Lest” is followed by “should”, it is negative do not use another negative with it. Hence, option(b) is the correct choice.

78. (a): ‘Cited’ is the correct usage. **Cite** refers to as evidence for or justification of an argument or statement, especially in a scholarly work.

79. (d): ‘Escape’ is the correct usage. **Escape**: break free from confinement or control.

80. (d): **Connubial** - relating to marriage. **Cloistered**- keep away from the outside world.

81. (b): **Pious** - devoutly religious. **Reverent** - feeling or showing deep and solemn respect.

82. (a): Correct spelling is “**Incisive**” which means (of a person or mental process) intelligently analytical and clear-thinking. **Prolix**: (of speech or writing) using or containing too many words; tediously lengthy. **Posterity**: all future generations of people. **Peruse**: read (something), typically in a thorough or careful way.

83. (c): Correctly spelt word is “**frigate**”.

**Frigate**: any of several different types of small and fast warships  
Correct spelling and meanings of other words are:

**Grueling**: extremely tiring and demanding.  
**Nonplussed**: so surprised and confused that one is unsure how to react.  
**Burdensome**: difficult to carry out or fulfil; taxing.

84. (a): **Nihilism**: rejection of all religious and moral principles, in the belief that life is meaningless  
**Certitude**: absolute certainty or conviction that something is the case.

**Credence**: belief in or acceptance of something as true.

**Fidelity**: faithfulness to a person, cause, or belief, demonstrated by continuing loyalty and support.

85. (c): **Embody**: an expression of or give a tangible or visible form to an idea, quality, or feeling  
**Spectre**: something widely feared as a possible unpleasant or dangerous occurrence.

**Revenant**: a person who has returned, especially supposedly from the dead.

**Apparition**: a ghost or ghostlike image of a person.

86. (a): **Tangible**: perceptible by touch;  
**Palpable**: able to be touched or felt.

87. (d): **Bad patches**: A period of difficulty, suffering

88. (a): **In Vain**: without success or a result.

89. (b): **Inalienable**- not subject to being taken away from or given away by the possessor.  
**Repealable**-to revoke or rescind.

90. (a): **Make** is a causative verb which takes 1<sup>st</sup> form of verb. Keeping the same into consideration, option (a) is the correct choice.

91. (a): Verbs and prepositions are followed by objective case of a pronoun. Use “between you and me”.

92. (b):

93. (a):

94. (b):

95. (c):

- 96. (d):** The correct answer is option d.  
The word that can be filled in the blank is, 'Oldest'.  
The given passage informs about 'The Ajanta Caves'. It states that these caves are one of the oldest caves in the country. These caves are known for their paintings, sculptures. These caves are an inspiration to today's Indian art & one must visit these caves.  
As per the context of the passage the word 'Oldest' fits in properly & hence it is the correct choice.
- 97. (a):** The correct answer is option a.  
The word that can be filled in the blank is, 'Protected'.  
Protected monument means an ancient monument which is declared to be of national importance.  
Protected - kept safe from injury, damage, or loss.  
For example - A protected environment, A protected species, any monuments, caves.  
The given passage informs about 'The Ajanta Caves'. It states that these caves are one of the oldest caves in the country. These caves are known for their paintings, sculptures. These caves are an inspiration to today's Indian art & one must visit these caves.  
As per the context of the passage the word 'Protected' fits in properly & hence it is the correct choice.
- 98. (c):** The correct answer is option c.  
The word that can be filled in the blank is, 'Shelter'.  
Shelter (n) - A place that provides food and housing to those in need.  
The given passage informs about 'The Ajanta Caves'. It states that these caves are one of the oldest caves in the country. These caves are known for their paintings, sculptures. These caves are an inspiration to today's Indian art & one must visit these caves.

As per the context of the passage the word 'Shelter' fits in properly & hence it is the correct choice.

- 99. (a):** The correct answer is option a.  
The word that can be filled in the blank is, 'Peek'.  
The given passage informs about 'The Ajanta Caves'. It states that these caves are one of the oldest caves in the country. These caves are known for their paintings, sculptures. These caves are an inspiration to today's Indian art & one must visit these caves.  
Peek into - It is a phrase which means, 'To provide insight of something, knowledge of something.'  
As per the context of the passage the word 'Peek' fits in properly & hence it is the correct choice.
- 100. (b):** The correct answer is option b.  
The word that can be filled in the blank is, 'Lover'.  
The given passage informs about 'The Ajanta Caves'. It states that these caves are one of the oldest caves in the country. These caves are known for their paintings, sculptures. These caves are an inspiration to today's Indian art & one must visit these caves.  
As per the context of the passage the word 'Lover' fits in properly & hence it is the correct choice.

