

STAFF SELECTION COMMISSION

CONSTABLE (GD) IN CAPFS, SSF, ASSAM RIFLES & NCB

SOLVED PAPER

(8th December 2017: Shift-1)

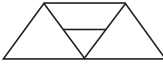
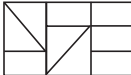
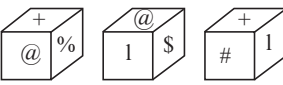
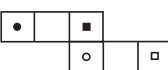
Time Allotted- 1.5 hours










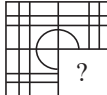









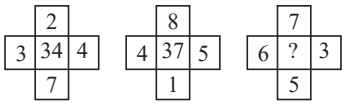




Max marks- 100

Important Instructions:-

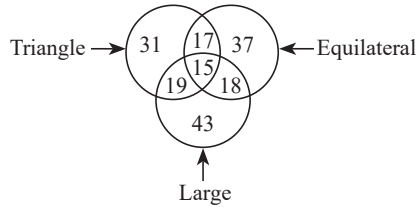
- This paper contains 94 questions which are divided into 3 sections.
- General Intelligence & Reasoning contains 35 questions
- General Knowledge & General Awareness contains 50 questions
- Elementary Mathematics contains 9 questions
- There will be 1 mark for each correct answer and also there will be negative marking of 0.25 marks for each wrong answer.
- Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General Intelligence & Reasoning

1. In the following question, select the related word from the given alternatives.
Hockey : Stick :: Cricket : ?
1. Bat 2. Stadium 3. Pitch 4. Batsman
2. In the following question, select the related letters from the given alternatives.
CRAP : IMGK :: DINA : ?
1. KCUU 2. JDTV 3. XDTU 4. JCUV
3. In the following question, select the related number from the given alternatives.
13 : 91 :: 7 : ?
1. 27 2. 32 3. 49 4. 52
4. In the following question, select the odd word from the given alternatives.
1. Cube 2. Square 3. Circle 4. Rectangle
5. In the following question, select the odd letters from the given alternatives.
1. CJQX 2. DKRY 3. ELSW 4. BIPW
6. In the following question, select the odd number pair from the given alternatives.
1. 42 – 84 2. 13 – 25 3. 17 – 34 4. 24 – 48
7. In the following question, select the odd number pair from the given alternatives.
1. 123 – 231 2. 352 – 523 3. 461 – 614 4. 478 – 874
8. How many triangles are there in the given figure?

1. 4 2. 6 3. 5 4. 7
9. How many rectangles are there in the given figure?

1. 13 2. 15 3. 17 4. 19
10. Three positions of a cube are shown below. What will come opposite to face containing '@'?

1. # 2. + 3. \$ 4. %
11. Which of the following cube in the answer figure CANNOT be made from unfolded cube in the question figure?


1.  2.  3.  4. 
12. From the given answer figures, select the one in which the question figure is hidden/embedded.

1.  2.  3.  4. 
13. Which answer figure will complete the pattern in the question figure?

1.  2.  3.  4. 
14. If a mirror is placed on the line AB, then which of the answer figures is the right mirror image of the given figure?

1.  2. 
3.  4. 
15. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

1. 51 2. 57 3. 53 4. 59
16. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.
PRINTINGS
1. SAINT 2. PRINT 3. STING 4. RINGS
17. Identify the diagram that best represents the relationship among the given classes.
Brain, Lungs, Body
1.  2.  3.  4. 

18. In the given figure, how many triangles are large but not equilateral?



1. 17 2. 19 3. 18 4. 15
19. In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. All pages are red.
II. Some pages are solid.

Conclusions:

- I. Some solid are red.
II. All red are pages.

1. Only conclusion I follows.
2. Only conclusion II follows.
3. Both conclusion follow.
4. Neither conclusion I nor conclusion II follows.

20. In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. All black are walls.
II. All colours are walls.

Conclusions:

- I. Some colours are black.
II. All walls are black.
III. All black are colours.

1. Only conclusion I follows.
2. Only conclusion II follows.
3. Only conclusion III follows.
4. Neither conclusion follows.

21. Neha is the sister of Rohit and mother of Rahul. Rahul is the brother of Sohiti. How is Neha related to Sohiti?

1. Sister 2. Mother 3. Daughter 4. Wife

22. Pointing towards a man, a woman said, 'He is the father of my son's sister's daughter. How is that man related to the woman?

1. Son-in-law 2. Son 3. Husband 4. Brother

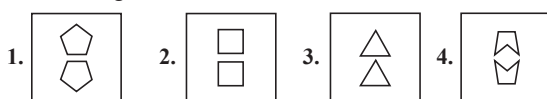
23. The ratio of the present ages of two girls is 4 : 5. After 2 years, their ages will be in ratio 5 : 6. What will be the ratio of their ages after 14 years?

1. 11 : 12 2. 17 : 18 3. 31 : 33 4. 11 : 19

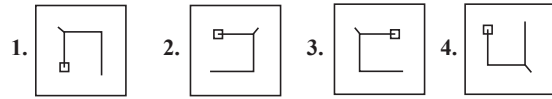
24. Selling price of an article is Rs 910. If the profit earned is 40%, then what is the cost price (in Rs) of the article?

1. 720 2. 680 3. 780 4. 650

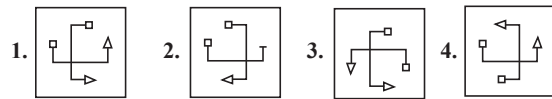
25. In the given question, there are four figures given out of which three are similar in some manner and one is not like the others. Select the figure which is odd one out.



26. In the given question, there are four figures given out of which three are similar in some manner and one is not like the others. Select the figure which is odd one out.



27. In the given question, there are four figures given out of which three are similar in some manner and one is not like the others. Select the figure which is odd one out.



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

16, 18, 21, 23, 26, ?

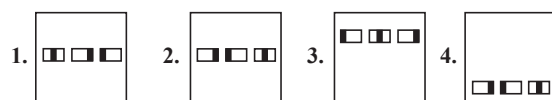
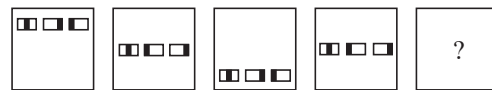
1. 29 2. 30 3. 28 4. 33

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

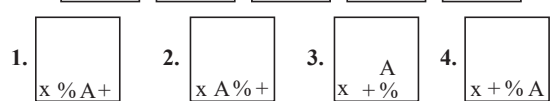
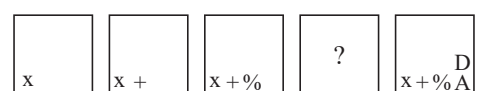
51, 55, 71, 107, 171, ?

1. 231 2. 271 3. 259 4. 313

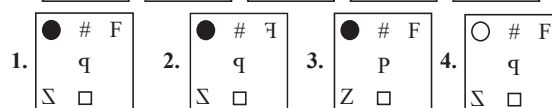
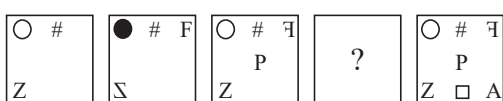
30. In the following question select the figure which can be placed at the sign of question mark (?) from the given alternatives.



31. In the following question, select the figure which can be placed at the sign of question mark (?) from the given alternatives.



32. In the following question, select the figure which can be placed at the sign of question mark (?) from the given alternatives.



33. In a certain code language, 'FLAME' is written as '69431' and 'MOCT' is written as '3872'. How is 'FACT' written in that code language?

1. 6472 2. 6147 3. 2476 4. 8743

34. In a certain code language, 'FUME' is written as '43' and 'TRAP' is written as '53'. How is 'RIMP' written in that code language?

1. 49 2. 54 3. 58 4. 56

35. In a certain code language, 'WINDSHIELD' is written as 'CKDHGRCMHV'. How is 'FRONTBACK' written in that code language?

1. IAYZRLMPD 2. JDZVSOPQG
3. JBZASMNQE 4. LDBCUIOPSG

General Knowledge & General Awareness

36. Which of the following is known as plastic money?
 1. Fixed Deposit 2. Credit Cards
 3. Bearer cheques 4. Demand Drafts
37. What do we deduct from the Gross National Product to get the Net National Product?
 1. Loss or Depreciation 2. Imports
 3. Interim Payments 4. Direct Taxes
38. Who was the first chairman of the Planning Commission?
 1. Dr. Rajendra Prasad 2. Dr. S Radhakrishnan
 3. Jawaharlal Nehru 4. M. Vishveshwaraya
39. Which of the following deals with economic offences?
 1. POTA 2. TADA 3. MISA 4. COFEPOSA
40. Which country is following one party system?
 1. Chile 2. China 3. Russia 4. Spain
41. The essential feature of democracy is giving prominence to the _____
 1. Citizen 2. Civil Organization
 3. Judiciary 4. Executives
42. How many types of emergencies are envisaged by
 1. 1 2. 2 3. 3 4. 4
43. Under which article of the Indian Constitution can the Central Government direct the State Governments?
 1. Article 256 2. Article 263 3. Article 356 4. Article 370
44. Who was the Indian ruler who had territory outside India?
 1. Chandragupta Maurya
 2. Kanishka
 3. Chandragupta Maurya and Kanishka both
 4. No option is correct
45. Which one of the following dynasties was founded by Bimbisara?
 1. Nanda 2. Maurya 3. Haryanka 4. Gupta
46. What was the another name of Quit India Movement?
 1. August Kranti 2. Non-cooperation
 3. Civil Disobedience 4. No option is correct
47. In which session Congress Party was split?
 1. Surat, 1906 2. Lahore, 1909
 3. Madras, 1908 4. No option is correct
48. Where is the Salar Jung Museum situated?
 1. Patna 2. Hyderabad 3. Lucknow 4. Mumbai
49. Where did the development of miniature paintings of Indian heritage NOT happen at the followings?
 1. Mewar 2. Junagarh 3. Kishangarh 4. Bundi
50. In which state is located the Lipulekh Pass?
 1. Sikkim 2. Uttarakhand
 3. Himachal Pradesh 4. Jammu and Kashmir
51. Which of the following is a salt water lake?
 1. Wular 2. Sambhar
 3. Dal 4. Govind Sagar
52. Which of the following place in Jammu and Kashmir is known for 'saffron cultivation'?
 1. Pampore 2. Kashmir 3. Jammu 4. Ladakh
53. Which of the following region receive rainfall by Western Disturbance?
 1. Kerala 2. Tamil Nadu 3. Punjab 4. Karnataka
54. Which of the following minerals has another name called 'brown diamond'?
 1. Mica 2. Iron 3. Manganese 4. Lignite
55. Which of the following part of India receives the first monsoon in summer?
 1. Himalayas 2. Meghalaya Plateau
 3. Western Ghats 4. Eastern Ghats
56. The spherical shape of rain drops is due to
 1. Viscosity 2. Elasticity
 3. Friction 4. Surface tension
57. Which of the following is Not one of the fundamental quantities in physics?
 1. Time 2. Length 3. Weight 4. Mass
58. Which of the following produces more severe burns?
 1. Boiling Water 2. Steam
 3. Hot air 4. Sun rays
59. Which of the following component is responsible for the formation of kidney stones?
 1. Sodium Chloride 2. Silicates
 3. Calcium oxalate 4. Calcium bicarbonate
60. Which of the following kinds of lenses are used to treat Astigmatism?
 1. Concave Lens 2. Convex Lens
 3. Bifocal Lens 4. Cylindrical
61. Which of the most abundant inert gas in the atmosphere of earth?
 1. Helium 2. Neon 3. Argon 4. Xenon
62. The most malleable metal is _____.
 1. platinum 2. silver 3. iron 4. gold
63. Which of the following gases used in manufacturing of vanaspati ghee from vegetable oil?
 1. Hydrogen 2. Helium 3. Oxygen 4. Nitrogen
64. Which layer of the atmosphere also called the Ozonosphere?
 1. Exosphere 2. Stratosphere
 3. Troposphere 4. Mesosphere
65. Which of the following is responsible for turning the Taj Mahal to yellow in colour?
 1. Potassium 2. Carbon dioxide
 3. Sulphur dioxide 4. No option is correct
66. Mission Indradhanush is related with _____.
 1. Children Safety 2. Children Vaccination
 3. E-commerce 4. Rice comfort
67. Which state government has launched Rani Laxmi Bai Pension scheme?
 1. Madhya Pradesh 2. Delhi
 3. Punjab 4. Uttar Pradesh
68. Which is the name of indigenous subsonic cruise missile test fired recently by India?
 1. Trishul 2. Naag 3. Nirbhay 4. Kaal
69. Which of the following African countries has launched a earth observation satellite in October 2017?
 1. Morocco 2. Egypt 3. Ethiopia 4. Sudan
70. India beat Malaysia recently, in which of the following cup to clinch its third title?
 1. Under-17 FIFA Cup 2. Asia Cup
 3. World Cup 4. Sudirman Cup
71. Which of the following became first Indian woman to tie up with yellow wrestling Entertainment(WWE)?
 1. M C Mary Kom 2. Babita Phogat
 3. Kavita Devi 4. No option is correct
72. Guangzhou is the Chinese name of which city?
 1. Beijing 2. Canton 3. Sichuan 4. Manchuria
73. The only one of these neighbors of India that does not use the rupee as currency is _____.
 1. Pakistan 2. Sri Lanka 3. Nepal 4. Bangladesh
74. Who has won the 2017 Nobel Prize for Economics?
 1. Raghuram Rajan 2. Richard Thaler
 3. Jagdish Bhagwati 4. Amartya Sen
75. Who has become the first Indian to be honored with Anna Politkovskaya 2017?
 1. Sanjay Pathak 2. MM Kalburgi
 3. Sudarsan Pattnaik 4. Gauri Lankesh

76. Which state govt has reduced interest on loan under Saksham Yojana in October 2017?
 1. Uttar Pradesh 2. Chhattisgarh
 3. Madhya Pradesh 4. Maharashtra
77. The Union Govt has approved the continuation of which centrally sponsored scheme for states in november 2017?
 1. Gramin Bhandaran Yojana
 2. Janani Suraksha Yojana
 3. Antyodaya Anna Yojana
 4. Rashtriya Krishi Vikas Yojana
78. India has sent its first shipment of wheat to which of the following countries through Iran's Chabahar Port in October in 2017?
 1. Afghanistan 2. Turkmenistan
 3. Iraq 4. Uzbekistan
79. India is going to jointly work in a multi-radio telescope project with which country?
 1. Japan 2. China 3. Iran 4. South Africa
80. Recently, the world's smallest squirrel was found in which of the following countries?
 1. India 2. Singapore 3. Indonesia 4. Japan
81. Which of the following states became first state to launch electric bus service?
 1. Himachal Pradesh 2. Kerala
 3. Assam 4. Jammu & Kashmir
82. Who has been appointed as the new governor of Bihar?
 1. Keshari Nath Tripathi 2. Satyapal Malik
 3. Jagdish Mukhi 4. Ram Naik
83. Jagmeet Singh has been selected for the first non-white president of the New Democratic Party (NDP). NDP is a major political party of which country
 1. Canada 2. United States of America
 3. Brazil 4. Scotland
84. India's first Pradhan Mantri Kaushal Kendra for Skilling in Smart Cities was inaugurated in which city?
 1. Mumbai 2. Kolkata 3. Hyderabad 4. New Delhi
85. In September 2017, United states of America President has issued a new travel ban on eight countries. Which of the following countries is not in that list?
 1. North Korea 2. Iran 3. Syria 4. Sudan

Elementary Mathematics

86. What is the value of $\left(\frac{7}{5}\right)^{\frac{1}{2}} \times \left(\frac{5}{7}\right)^{\frac{1}{2}}$?
 1. $\frac{5}{7}$ 2. $\frac{7}{5}$ 3. $\frac{49}{25}$ 4. $\frac{25}{49}$
87. How many prime numbers are there from 1 to 30?
 1. 8 2. 9 3. 10 4. 11
88. If $\frac{2}{3}$ of $\frac{4}{5}$ of $\frac{6}{5}$ of a number is equal to 240, then what is the value of the number?
 1. 125 2. 250 3. 375 4. 450
89. What is the largest three digit number which is exactly divisible by 3, 4 and 5?
 1. 910 2. 900 3. 960 4. 990
90. What is the value of $1.44 \times 0.02 + 2.2 \times 0.01$?
 1. 0.0508 2. 0.0502 3. 0.508 4. 0.502
91. What is the value of 25% of 40% of $\frac{3}{7}$ of 3500?
 1. 750 2. 1050 3. 150 4. 450
92. If $x : y = 2 : 3$ and $z : w = 5x : 7y$, then what is the value of $xz : yw$?
 1. 10 : 21 2. 15 : 32 3. 4 : 9 4. 20 : 63
93. Average of 19, 63, 51, 78, 47 and A is 49. What is the value of A?
 1. 29 2. 32 3. 36 4. 39
94. Simple and compound interest on a principal at a certain rate of interest for 2 years in ₹ 1400 and ₹ 1470 respectively. What is the principal (in ₹)?
 1. 8500 2. 7000 3. 6000 4. 6500

Answer Key

1. (1)	2. (2)	3. (3)	4. (1)	5. (3)	6. (2)	7. (4)	8. (1)	9. (3)	10. (1)
11. (3)	12. (1)	13. (2)	14. (3)	15. (2)	16. (1)	17. (3)	18. (2)	19. (1)	20. (4)
21. (2)	22. (1)	23. (1)	24. (4)	25. (3)	26. (4)	27. (2)	28. (3)	29. (2)	30. (1)
31. (4)	32. (1)	33. (1)	34. (2)	35. (3)	36. (2)	37. (1)	38. (3)	39. (4)	40. (2)
41. (1)	42. (3)	43. (1)	44. (3)	45. (3)	46. (1)	47. (1)	48. (2)	49. (2)	50. (2)
51. (2)	52. (1)	53. (3)	54. (4)	55. (3)	56. (4)	57. (3)	58. (2)	59. (3)	60. (4)
61. (3)	62. (4)	63. (1)	64. (2)	65. (3)	66. (2)	67. (4)	68. (3)	69. (1)	70. (2)
71. (3)	72. (2)	73. (4)	74. (2)	75. (4)	76. (2)	77. (4)	78. (1)	79. (4)	80. (3)
81. (1)	82. (2)	83. (1)	84. (4)	85. (4)	86. (1)	87. (3)	88. (3)	89. (3)	90. (1)
91. (3)	92. (4)	93. (3)	94. (2)						

Answers with Explanations

1. Option (1) is correct.

In the given analogy, hockey is played by stick, similarly, cricket is played with a bat.

2. Option (2) is correct.

Given that CRAP: IMGK :: DINA:

The pattern: followed here is;

$$\begin{array}{cccc}
 \text{C} & \text{R} & \text{A} & \text{P} \\
 +6 \left| & -5 \left| & +6 \left| & -5 \left| \\
 \text{I} & \text{M} & \text{G} & \text{K}
 \end{array}$$

Similarly,

$$\begin{array}{cccc}
 \text{D} & \text{I} & \text{N} & \text{A} \\
 +6 \left| & -5 \left| & +6 \left| & -5 \left| \\
 \text{J} & \text{D} & \text{T} & \text{V}
 \end{array}$$

Hence, JDTV is the correct answer.

3. Option (3) is correct.

Given that : 13 : 91 :: 7 : ?

The pattern followed here is:

$$1^{\text{st}} \text{ term} \times 7 = 2^{\text{nd}} \text{ term}$$

As,
 $13 \times 7 = 91$
 Similarly
 $7 \times 7 = 49$

Hence, 49 is the correct answer.

4. **Option (1) is correct.**

In the given options, cube is a three dimensional figure whereas, square, circle and rectangle are two-dimensional figures.

Hence, cube is the odd one out.

5. **Option (3) is correct.**

The pattern followed here is:

Option 1) $C \xrightarrow{+7} J \xrightarrow{+7} Q \xrightarrow{+7} X$

Option 2) $D \xrightarrow{+7} K \xrightarrow{+7} R \xrightarrow{+7} Y$

Option 3) $E \xrightarrow{+7} L \xrightarrow{+7} S \xrightarrow{+4} W$

Option 4) $B \xrightarrow{+7} I \xrightarrow{+7} P \xrightarrow{+7} W$

Hence, ELSW is the odd one out.

6. **Option (2) is correct.**

The pattern followed here is:

1st term $\times 2 \times 2^{\text{nd}}$ term.

so,

$42 \times 2 = 84$

$13 \times 2 = 26 \neq 25$

$17 \times 2 = 34$

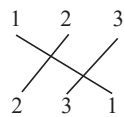
$24 \times 2 = 48$

Hence, 13 - 25 is the odd one out.

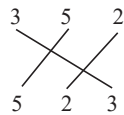
7. **Option (4) is correct.**

The pattern followed here is:

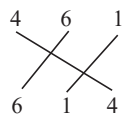
Option-1) $123 - 231$



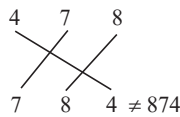
Option-2) $352 - 523$



Option - 3) $461 - 614$

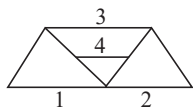


Option-4) $478 - 874$



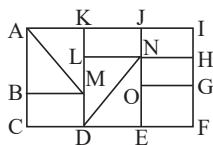
Hence, 478 is the odd one out.

8. **Option (1) is correct.**



Total no. of triangles = 4.

9. **Option (3) is correct.**



Rectangles formed are:

ACFI, AC DK, KDEJ, JEFI, KDFI, ACEJ, ABMK, BCDM, KLNJ, LDEN, JNHI, NEFH, NOGH, OEFG, KLHI, LDFH, and JOGI.

So, total number of rectangles are 17.

10. **Option (1) is correct.**

According to the 1st and 2nd term positions of a cube, the signs +, %, 1, \$ are adjacent to @.

So, the sign left is # which is opposite to @.

11. **Option (3) is correct.**

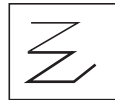
According to the unfolded cube given, following opposite pairs can be formed.



But in option (3), O and □ are adjacent to each other. Hence, it is the correct answer.

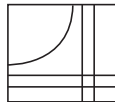
12. **Option (1) is correct.**

The given figure is embedded in option (1) as highlighted below:



13. **Option (2) is correct.**

The following image will complete the figure according to the pattern.



14. **Option (3) is correct.**

If a mirror is placed at AB then it will work as a water image, in which the figure will be flipped upside down.

Hence, the required answer figure is:



15. **Option (2) is correct.**

The pattern followed here is:

For figure 1:

$(3 \times 2) + (7 \times 4)$
 $= 6 + 28 = 34.$

For figure 2:

$(8 \times 4) + (5 \times 1)$
 $= 32 + 5 = 37$

Similarly for figure 3:

$(7 \times 6) + (5 \times 3)$
 $= 42 + 15 = 57$

16. **Option (1) is correct.**

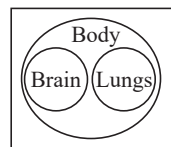
Given word : PRINTINGS

The word SAINT cannot be made using the letters in the above word because it doesn't contain A.

17. **Option (3) is correct.**

Given classes : Brain, Lungs, Body.

The diagram that best illustrates the given classes is:



18. **Option (2) is correct.**

In the given figure,

No. of triangles which are large = $19 + 15 = 34.$

And no. of triangles which are large but not equilateral = $34 - 15 = 19.$

Hence, 19 is the correct answer.

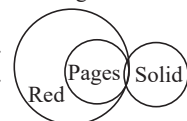
19. **Option (1) is correct.**

According to the statements, following Venn diagram can be made:

Conclusion-I) Some solid are red - True.

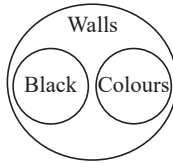
Conclusion-II) All red are pages - False.

Hence, only conclusions I follows.



20. **Option (4) is correct.**

According to the statements, following Venn diagram can be made:



Conclusion-I) Some colors are black - False.

Conclusion-II) All walls are black - False.

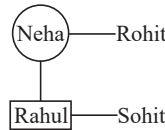
Conclusion-III) All black are colors - False.
Hence, neither conclusion follows.

21. **Option (2) is correct.**

According to the question, following family tree can be made:

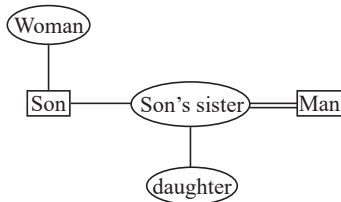
Circle is used for females and rectangle is used for males.

(Gender of Rohit and Sohiti are not known)
Hence, Neha is the mother of Sohiti.



22. **Option (1) is correct.**

According to the question, following family tree can be made:



Hence, the man is the son-in-law of woman.

23. **Option (1) is correct.**

Let the Ratio of their present ages = $4x : 5x$
Ratio after 2 years = $5 : 6$

$$\therefore \frac{4x+2}{5x+2} = \frac{5}{6}$$

$$\Rightarrow 24x + 12 = 25x + 10$$

$$\Rightarrow 12 - 10 = 25x - 24x$$

$$\Rightarrow x = 2$$

So, age of 1st girl = $4x = 4 \times 2 = 8$ years

So, age of 2nd girl = $5x = 5 \times 2 = 10$ years

\therefore Ages after 14 years = $8 + 14 = 22$ years and
 $10 + 14 = 24$ years

$$\therefore \text{Required ratio} = \frac{22}{24} = \frac{11}{12}$$

Hence, 11 : 12 is the correct answer.

24. **Option (4) is correct.**

Given that : Selling price = 910 and profit percentage = 40%

$$\begin{aligned} \text{Now, Cost price} &= \frac{100 \times \text{S.P}}{100 + \text{Profit Percentage}} \\ &= \frac{100 \times 910}{100 + 40} = \frac{91000}{140} \\ &= 650 \end{aligned}$$

Hence, 650 is the correct answer.

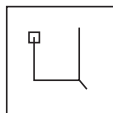
25. **Option (3) is correct.**

In the given options, the figures are water images of one another. But in option (3), triangles are not water images.

Hence, it is the odd one out.

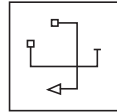
26. **Option (4) is correct.**

According to the pattern, following figure is the odd one out:



27. **Option (2) is correct.**

In all the given figures, there are two triangles and two rectangles at the end of each line in the box. But in option (2), there are two rectangles and one triangle.

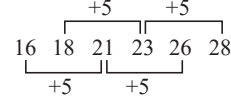


Therefore, it is the odd one out.

28. **Option (3) is correct.**

Given series : 16, 18, 21, 23, 26, ?

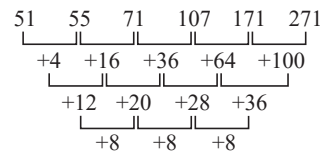
The pattern followed here is:



Hence, 28 is the correct answer.

29. **Option (2) is correct.**

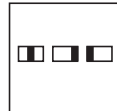
Given series : 51, 55, 71, 107, 171, ?



Hence, 271 is the correct answer.

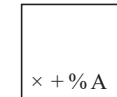
30. **Option (1) is correct.**

According to the pattern followed, following figure will complete the series:



31. **Option (4) is correct.**

In each figure, a sign is increasing after the previous sign. So, the missing figure is:



32. **Option (1) is correct.**

According to the pattern followed, following figure will complete the series:



33. **Option (1) is correct.**

Given that : FLAME is written as 69431 and MOCT is written as 3872.

So, the code for FACT will be

$$F = 6$$

$$A = 4$$

$$C = 7$$

$$T = 2$$

Hence, 6472 is the correct answer.

34. **Option (2) is correct.**

Given that : FUME is written as 43.

Here, the positional values of alphabets are added and the 2 is subtracted.

As,

$$(F + U + M + E) - 2$$

$$= (6 + 21 + 13 + 5) - 2$$

$$= 45 - 2 = 43$$

And, TRAP is written as 53.

$$(T + R + A + P) - 2$$

$$= (20 + 18 + 1 + 16) - 2$$

$$= 55 - 2 = 53$$

Similarly, fo RIMP

$$(R + I + M + P)$$

$$(18 + 9 + 13 + 16) - 2$$

$$56 - 2 = 54$$

Hence, 54 is the correct answer.

35. Option (3) is correct.

Given that : WINDSHIELD is written as CKDHGRCMHV
The pattern followed here is:

First the word is written in reverse order and then 1 positional value is deducted from each alphabet.

As,

WINDSHIELD $\xrightarrow{\text{Reverse}}$ DLEIHSNIV

Now,

D	L	E	I	H	S	D	N	I	W
-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
C	K	D	H	G	R	C	M	H	V

Similarly, for FRONTBACK

FRONTBACK $\xrightarrow{\text{Reverse}}$ KCABTNORF

Now,

K	C	A	B	T	N	O	R	F
-1	-1	-1	-1	-1	-1	-1	-1	-1
J	B	Z	A	S	M	N	Q	E

Hence, JBZASMNQE is the correct answer.

36. Option (2) is correct.

Plastic money, as the term suggests, generally refers to credit cards that are made of plastic. These cards offer a convenient and widely accepted way for individuals to make payments, purchases, and transactions without the need for physical currency.

37. Option (1) is correct.

To calculate the Net National Product (NNP) from the Gross National Product (GNP), we deduct depreciation or loss.

38. Option (3) is correct.

Jawaharlal Nehru was the first Chairman of the Planning Commission. The first Five-year Plan was launched in 1951 and two subsequent five-year plans were formulated until 1965 when there was a break because of the Indo-Pakistan Conflict.

39. Option (4) is correct.

COFEPOSA (Conservation of Foreign Exchange and Prevention of Smuggling Activities Act), focuses on addressing economic offences by tackling issues related to the conservation of foreign exchange and the prevention of smuggling activities.

40. Option (2) is correct.

China is following a one-party system. The political system in China is characterized by the dominance of the Communist Party of China (CPC), making it a single-party state.

41. Option (1) is correct.

The fundamental characteristic of democracy lies in giving prominence to the citizen. In a democratic system, the power and authority to govern are vested in the hands of the people, and citizens play a central role in decision-making through processes such as voting and civic participation.

42. Option (3) is correct.

There are three types of emergencies envisaged by the Indian Constitution:

- National Emergency (Article 352)
- State Emergency (President's Rule) (Article 356)
- Financial Emergency (Article 360)

43. Option (1) is correct.

Article 256 of the Indian Constitution outlines the obligations of the Union and States, emphasizing that each state's executive power must ensure compliance with Parliament's laws and existing laws, while the Union can also exercise its executive power to issue directions to the state.

44. Option (3) is correct.

Chandragupta Maurya and Kanishka both had territory outside India. Kanishka, the first Indian ruler with territory outside India, ruled northern India and Central Asia. Chandragupta Maurya founded the Maurya Empire, expanding into modern-day Pakistan. Maurya battled Alexander the Great in 326 BCE.

45. Option (3) is correct.

Bimbisara is considered the founder of the Haryanka dynasty. He became king in 543 BCE at the age of 15, after being appointed by his father, Bhattiya, a chieftain.

46. Option (1) is correct.

The Quit India Movement, which was launched on August 8, 1942, during the Indian Independence Movement, is also known as "August Kranti" (August Revolution)

47. Option (1) is correct.

In Surat 1906, session Congress Party was split. The Surat Split of 1907 divided the Indian National Congress into moderates and extremists, marking a significant ideological and political division.

48. Option (2) is correct.

The Salar Jung Museum, located in Hyderabad, is renowned for hosting an extensive collection of antiques, art objects, and manuscripts. It stands as a significant cultural institution in India.

49. Option (2) is correct.

The evolution of miniature paintings of Indian heritage did not take place in Junagarh. While miniature paintings thrived in several princely states such as Mewar, Kishangarh, and Bundi, Junagarh is not historically linked to this art form.

50. Option (2) is correct.

The Lipulekh Pass is situated in the state of Uttarakhand and serves as a vital mountain pass in the Himalayas, linking the Indian state of Uttarakhand with the Tibet region of China.

51. Option (2) is correct.

Sambhar Lake, located in the Indian state of Rajasthan, is the largest inland saltwater lake in India.

52. Option (1) is correct.

Pampore in Jammu and Kashmir is renowned for its saffron cultivation, earning it the moniker "Saffron Town". The region is known for producing high-quality saffron, a valuable spice derived from the *Crocus sativus* flower.

53. Option (3) is correct.

Punjab receives rainfall from Western Disturbances. Western Disturbances are extra-tropical storms that originate in the Mediterranean and flow east. They cause winter rainfall in the northwestern parts of the Indian subcontinent, including Punjab, Haryana, Delhi, and western Uttar Pradesh.

54. Option (4) is correct.

Lignite, a type of low-grade coal with a brownish-black colour, is occasionally nicknamed "brown diamond" due to its colour and carbon composition, despite its distinct properties from a genuine diamond.

55. Option (3) is correct.

The first monsoon in summer typically arrives in the Western Ghats region. The Western Ghats, being located along the western coast of India, are among the first regions to experience the onset of the southwest monsoon, which marks the beginning of the rainy season in India.

56. Option (4) is correct.

The round shape of raindrops is mainly attributed to surface tension, a property of liquids that compels them to minimize

surface area. This natural tendency leads raindrops to form spherical shapes, as it represents the configuration with the lowest surface area, ensuring stability and efficient movement through the air.

57. Option (3) is correct.

Weight does not fall under the category of fundamental quantities. Weight is defined as the force exerted by gravity on an object and is typically measured in newtons (N) or pounds-force (lbf), depending on the unit system. Unlike fundamental quantities such as time, length, and mass, weight varies with the strength of gravity and is not considered inherent to the nature of an object.

58. Option (2) is correct.

Steam inflicts more severe burns than boiling water, hot air, or sunlight. This heightened severity is attributed to steam's ability to retain a greater amount of heat energy following its transformation from water to vapour.

59. Option (3) is correct.

Calcium oxalate is the substance responsible for the formation of kidney stones. When there is an excess of calcium oxalate in the urine and the body lacks sufficient fluids to dilute it, the calcium oxalate can crystallize and form solid masses known as kidney stones.

60. Option (4) is correct.

Cylindrical lenses correct astigmatism by addressing the irregular curvature of the cornea or lens, unlike spherical lenses which have a uniform curvature.

61. Option (3) is correct.

Argon is the most abundant inert gas in the Earth's atmosphere, making up approximately 0.934% of the atmosphere by volume. It is mainly generated by the decay of radioactive potassium - 40 found in the Earth's crust.

62. Option (4) is correct.

Gold is renowned as the most malleable metal. Malleability denotes a metal's capacity to be shaped into thin sheets through hammering, pressing, or rolling without fracturing.

63. Option (1) is correct.

Hydrogen gas plays a crucial role in the production of vanaspati ghee from vegetable oil. This process involves hydrogenation, where hydrogen molecules are added to unsaturated vegetable oil, transforming it into a solid or semi-solid form, closely resembling the texture of ghee.

64. Option (2) is correct.

The layer of the atmosphere known as the Ozonosphere is the Stratosphere. It holds a higher concentration of Ozone (O_3) than other layers, particularly within its lower region called the Ozone layer.

65. Option (3) is correct.

The discolouration of the Taj Mahal is mainly attributed to air pollution, notably sulphur dioxide (SO_2) emissions from nearby industries and vehicles. When sulphur dioxide mixes with atmospheric moisture, it generates sulfuric acid. This acid reacts with the white marble surfaces of the Taj Mahal, leading to its gradual yellowing over time.

66. Option (2) is correct.

Mission Indradhanush is a government initiative focused on vaccinating children under two and pregnant women against seven preventable diseases. It aims to ensure widespread vaccination coverage, especially in remote areas, to protect against deadly illnesses.

67. Option (4) is correct.

The Rani Laxmi Bai Pension Scheme is offered by the Uttar Pradesh state government. Named after the courageous queen of Jhansi, Rani Lakshmi Bai, this initiative is designed to

extend financial support to indigent and elderly women residing in the state.

68. Option (3) is correct.

The indigenous subsonic cruise missile recently test-fired by India is named 'Nirbhay'. This missile, developed by the Defence Research and Development Organisation (DRDO), is designed to deliver conventional and nuclear warheads with precision to targets located deep inside enemy territory.

69. Option (1) is correct.

Morocco launched the Mohammed VI-A Earth observation satellite in October 2017 to bolster capabilities in environmental monitoring, land management, agriculture, and disaster management.

70. Option (2) is correct.

India recently defeated Malaysia to win its third title in the Asia Cup. This victory marked a significant achievement for the Indian hockey team, showcasing their prowess in the sport at the continental level.

71. Option (3) is correct.

Kavita Devi made history as the first Indian woman to join World Wrestling Entertainment (WWE), marking a major milestone for Indian women in professional wrestling, creating new opportunities and gaining global recognition for her talent and skill.

72. Option (2) is correct.

Guangzhou, also known as Canton in English, is the Chinese name for the city. It serves as a significant port city and the capital of Guangdong Province in southeastern China, boasting a rich history spanning over 2,000 years.

73. Option (4) is correct.

The neighbour of India that does NOT use the rupee as currency is Bangladesh. Bangladesh uses its own currency, the Bangladeshi Taka.

74. Option (2) is correct.

The 2017 Nobel Prize in Economics was awarded to Richard Thaler. Richard Thaler is an American economist known for his contributions to behavioural economics, particularly for his work on the psychology of economic decision-making.

75. Option (4) is correct.

The first Indian to be honoured with the Anna Politkovskaya Award in 2017 is Gauri Lankesh.

76. Option (2) is correct.

In October 2017, Chhattisgarh's state government implemented a reduction in the interest rates on loans provided under the Saksham Yojana. This initiative, part of a broader welfare scheme, aimed to enhance financial accessibility and affordability for diverse segments of society, aligning with the scheme's objective of providing vital support and assistance to beneficiaries.

77. Option (4) is correct.

The Union Govt has approved the continuation of Rashtriya Krishi Vikas Yojana's centrally sponsored scheme for states in November 2017.

78. Option (1) is correct.

India sent its first shipment of wheat to Afghanistan at Chabahar Port in October 2017. This marked a significant milestone in India's efforts to enhance connectivity and strengthen economic ties with Afghanistan by bypassing Pakistan's land route and utilizing the strategic Chabahar Port in Iran.

79. Option (4) is correct.

India and South Africa are poised to collaborate on a multi-radio telescope project, which seeks to bolster astronomical research capabilities through the combined resources and expertise of both nations.

80. Option (3) is correct.

Recently, the world's smallest squirrel was discovered in Indonesia. This tiny squirrel, known as the Bornean pygmy squirrel (*Exilisciurus exilis*), is native to the island of Borneo and measures just about 72 millimetres in length.

81. Option (1) is correct.

Himachal Pradesh has become the first state to launch an electric bus service, marking a significant step in the state government's drive to promote eco-friendly transportation and curb pollution levels across the region.

82. Option (2) is correct.

Satyapal Malik was appointed as Bihar's new governor, bringing a significant change in state leadership.

83. Option (1) is correct.

Jagmeet Singh has become the first non-white leader of the New Democratic Party (NDP), a major political party in Canada.

84. Option (4) is correct.

India's first Pradhan Mantri Kaushal Kendra for Skilling in Smart Cities was inaugurated in New Delhi.

85. Option (4) is correct.

Among the below options, Sudan was not on the list.

86. Option (1) is correct.

$$\begin{aligned} \text{Value of, } & \left(\frac{7}{5}\right)^{-\frac{1}{2}} \times \left(\frac{5}{7}\right)^{\frac{1}{2}} \\ \Rightarrow & \left(\frac{5}{7}\right)^{\frac{1}{2}} \times \left(\frac{5}{7}\right)^{\frac{1}{2}} \\ \Rightarrow & \frac{5}{7} \end{aligned}$$

87. Option (3) is correct.

Prime numbers between 1 to 30 = 2, 3, 5, 7, 11, 13, 17, 19, 23, 29
So, total 10 prime numbers are there in between 1 to 30.

88. Option (3) is correct.

Let the number = x

$$\text{According to the question, } x \times \frac{2}{3} \times \frac{4}{5} \times \frac{6}{5} = 240$$

$$\text{So, } x = 240 \times \frac{3}{2} \times \frac{5}{4} \times \frac{5}{6} = 375$$

89. Option (3) is correct.

LCM of 3, 4, and 5 = 60

Remainder when 1000 divided by 60 = 40

So, largest three digits number which will be divisible by 3, 4 and 5 = 1000 - 40 = 960

90. Option (1) is correct.

since, $1.44 \times 0.02 + 2.2 \times 0.01 = 0.0288 + 0.022 = 0.0508$

91. Option (3) is correct.

The value of, 25% of 40% of $\frac{3}{7}$ of 3500

$$= \frac{25}{100} \times \frac{40}{100} \times \frac{3}{7} \times 3500 = 150$$

92. Option (4) is correct.

Given that, $\frac{x}{y} = \frac{2}{3}$ and $\frac{z}{w} = \frac{5x}{7y}$

$$\text{So, } \frac{z}{w} = \frac{5 \times 2}{7 \times 3} = \frac{10}{21}$$

Hence, the value of $\frac{xz}{yw} = \frac{2}{3} \times \frac{10}{21} = \frac{20}{63}$

93. Option (3) is correct.

According to the question, Average of given number

$$= \frac{19 + 63 + 51 + 78 + 47 + A}{6} = 49$$

$$\Rightarrow 258 + A = 294$$

$$\Rightarrow A = 294 - 258 = 36$$

94. Option (2) is correct.

Given that,

SI for 2 years = ₹ 1400

$$\text{So, SI for 1 year} = \frac{1400}{2} = ₹ 700$$

CI for 2 years = ₹ 1470

Difference between SI and CI for two years = 1470 - 1400 = ₹ 70

$$\text{So, rate of interest} = \frac{70}{700} \times 100 = 10\% \text{ per annum}$$

$$\text{Principal amount} = 700 \times \frac{100}{10} = ₹ 7000$$