

STAFF SELECTION COMMISSION

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

SOLVED PAPER

(18th February 2019: Shift-1)

Time Allotted- 1.5 hours

Max marks- 100


Important Instructions:-

- This paper contains 100 questions which are divided into 4 sections. Each section contains 25 questions.
 - General Intelligence & Reasoning
 - General Knowledge & General Awareness
 - Elementary Mathematics
 - English
- 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. Find out the two signs to be interchanged to make the following equation correct.
 $10 + 10 \times 10 - 10 = 89$
 1. - and \times 2. \times and \div 3. + and \times 4. - and \div
2. The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.
Statements:
 1. All owls are horses.
 2. Some horses are hares.
Conclusions:
 I. Some owls are hares
 II. Some hares are Horses
 1. Only conclusions II follows
 2. Neither conclusion I nor conclusion II follow.
 3. Both conclusions follows.
 4. Only conclusion I follows.
3. Select the option that will correctly replace the question mark (?) in the series.
 13, 25, 42, 69, ?
 1. 111 2. 105 3. 95 4. 125
4. The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.
Statements:
 1. All pens are frogs.
 2. Some crows are frogs.
Conclusions:
 I. No pen is a crow.
 II. Some pens are crows.
 1. Either conclusion I or conclusions II follows.
 2. Only conclusions II follows.
 3. Both conclusions follow.
 4. Only conclusion I follows.
5. Select the option that will correctly replace the question mark (?) in the series.
 112, 108, 92, 56, ?
 1. -8 2. -7 3. -6 4. 7


6. Choose the option in which the figure marked 'X' embedded. (Rotation not allowed)




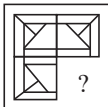
X


1. 


2. 


3. 


4. 
7. Choose the odd one out of the given option.
 1. CEK 2. AHI 3. DFH 4. CFI
8. Select the option that will correctly replace the question mark (?) in the series.
 SHO, QJN, OLM, ?
 1. LWV 2. LWL 3. MNL 4. MML
9. Select a figure from amongst the four alternatives that when placed in the blank space (?) of figure X will complete the pattern. (Rotation is not allowed)



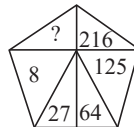
1. 

2. 

3. 

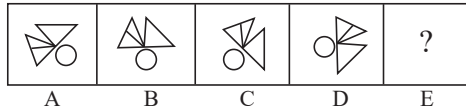
4. 
10. Select the option that is related to the third number in the same way as the second number is related to the first number.
 22 : 88 :: 37 : ?
 1. 221 2. 144 3. 169 4. 370
11. Eight friends A, B, C, D, E, F, G and H are sitting around a circular table facing each other for a lunch. A is opposite D third to the right of B. G is between A and F. H to the right of A. E is between C and D. Who is sitting between B and E.
 1. D 2. E 3. F 4. C
12. Seven friends O, P, Q, R, S, T and U are watching a movie sitting in a row. P is sitting at one extreme end. Q is sitting to the immediate left of S. P is sitting second to the right of T. U is not sitting at any extreme end. O is sitting between R and T. Who is sitting between Q and R?
 1. Q 2. T 3. R 4. S
13. Select the option that is related to the third term in the same way as the second term is related to the first term.
 Ichthyology : Fishes :: Pedology : ?
 1. Shells 2. Names 3. Soil 4. Moon

14. Select the option that will correctly replace the question mark (?) in the given pattern.



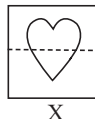
1. 343 2. 7 3. 37 4. 49

15. Choose the option that would follow next in the given figure series.



1. 2. 3. 4.

16. A square transparent sheet with a pattern is given. How will the pattern appear when the transparent sheet is folded along the dotted line?



1. 2. 3. 4.

17. J, K, L, M, N, and O are six teachers. Each one teaches a different subject out of Hindi, English, Math, Science, Social Science and Arts, not necessarily in the same order. Each of them teaches on only one day, from Monday to Saturday, not necessarily in the same order.

J teaches Science on Wednesday. O teaches Math second after J. K teaches on the first day of the week, but teaches neither Hindi nor English. M teaches English before N and L teaches Arts before J. Who teaches on Tuesday?

1. M 2. K 3. L 4. N

18. Choose the option that most closely resembles the mirror image of the given figure when mirror is placed at the right side.



1. 2. 3. 4.

19. In a certain code, POTATO is written as AOOPTT. How will BARBER be written in that code?

1. ABBERR 2. ABBRER 3. ARBERB 4. ABRBER

20. Choose the odd number out of the given options.

1. 97 2. 89 3. 83 4. 63

21. Select the Venn diagram that best represents the given set of classes.

Wheat, Crops, Farmers

1. 2. 3. 4.

22. Choose the odd one out of the given options.

1. Yellow 2. Pink 3. Purple 4. Orange

23. Select the option that is related to the third term in the same way as the second term is related to the first term.

Achieve : Fail :: Gloomy : ?

1. Chalk 2. Chant 3. Chase 4. Cheerful

24. Select the option that is related to the third term in the same way as the second term is related to the first term.

BFH : DHJ :: GKM : ?

1. MKI 2. IMO 3. KMG 4. MKG

25. In a certain code, Saw is written as 38. How will FEED be written in that code?

1. 70 2. 45 3. 88 4. 30

General Knowledge & General Awareness

26. Which articles of the Indian constitution cover the fundamental right against exploitation?

1. Articles 29-30 2. Articles 19-22
3. Articles 14-18 4. Articles 23-24

27. Where and against which country did Sachin Tendulkar score his 100th century?

1. Perth stadium, against West Indies
2. Shere Bangla stadium, against Bangladesh
3. Eden park, against New Zealand
4. Sydney cricket ground, against Australia

28. In which state is Kaziranga National Park situated?

1. Assam 2. Madhya Pradesh
3. Rajasthan 4. Bihar

29. Which of these language is declared 'classical' by the Government of India?

1. Marathi 2. Hindi 3. Odia 4. Pali

30. Arrange the following events in correct chronology.

1. Champaran satyagraha against indigo plantation
2. Starting of non-cooperation against indigo plantation
3. Rowlatt Satyagraha
4. Arrival of Simon commission in India

1. 1-3-2-4 2. 3-4-2-1 3. 4-2-1-3 4. 1-2-3-4

31. What was the amendment done to the Indian Constitution by 52nd amendment done in 1985?

1. Anti-defection law was concluded
2. Amendment to the Union and State lists with respect to raising of taxes
3. The words 'socialist secular' added to the preamble
4. Formation of Sikkim as a state within the Indian Union

32. The mettur dam is built on which river and is in which state?

1. Tungabhadra river, Karnataka
2. Kali river, Karnataka
3. Kaveri river, Tamil Nadu
4. Narmada river, Madhya Pradesh

33. Which of these personalities is popularly known as the 'father of the Indian Film industry'?

1. Amitabh Bachchan 2. Dadasaheb Phalke
3. Dev Anand 4. Rajesh Khanna

34. The silver coin introduced by the Sher Shah Suri was called

1. Tankah 2. Rupiya 3. Mohar 4. Dinar

35. The Kani shawl handicraft variety belongs to which of the following states of India?

1. Jammu & Kashmir 2. Arunachal Pradesh
3. Himachal Pradesh 4. Uttar Pradesh

36. Which of the following is not a term associated with credit?

1. Necessary documents 2. Collateral
3. Interest rate
4. Stamp by Finance minister

37. Which of the following competitions is not associated with Indian football?

1. Ranji Trophy 2. Federation Cup
3. Santosh Trophy 4. Durand Cup

38. Scurvy is caused by the deficiency of which Vitamin?

1. Vitamin C 2. Vitamin A 3. Vitamin D 4. Vitamin K

39. In which Indian state is bamboo drip irrigation system a very old practice?

1. Chhattisgarh 2. Meghalaya
3. Telangana 4. Maharashtra

40. Which of the highest quality hard coal of the below?
1. Peat 2. Lignite 3. Bituminous 4. Anthracite
41. The treaty of Purandar was signed between :
1. Afghans and Portuguese
2. Nawab of Bengal and Rajputs
3. Eastern Gangas and Cholas
4. Mughal and Marathas
42. Which of these motions is passed in the parliament to remove the president of India?
1. Impeachment Motion 2. Censure Motion
3. Cut Motion 4. No Confidence Motion
43. Which of these is an organisation that promotes sustainable management and conservation of tropical forests?
1. United Nations Forum on Forests
2. Greenpeace
3. World Wide Fund for Nature
4. International Tropical Timber Organization
44. Which of the following issues currency notes in India?
1. PNB 2. RBI 3. SBI 4. ICICI
45. What is the neutral value of the Ph scale?
1. Equal to 14 2. Less than 7 3. Equal to 7 4. Above 7
46. Bananas turn brown in color because:
1. an enzyme converts starch into sugar
2. the air reacts with the enzymes in the bananas
3. Bisphosphonates reacts with the enzymes in the banana
4. an enzyme converts sugar into starch
47. On which of the below can an excise duty charged?
1. A company's revenue
2. Export of goods and services
3. Import of goods and services
4. Goods manufactured
48. Who is the author of the 'India's Export Trends and Prospectus for self-sustained Growth'?
1. Shashi Tharoor 2. Manmohan Singh
3. Atal Bihari Vajpayee 4. Narendra Modi
49. In which Indian state is the Hornbill festival celebrated?
1. Nagaland 2. Manipur 3. Sikkim 4. Tripura
50. Which of the name of Malala Yousafzai's Biopic?
1. The Aviator 2. Frida
3. The social network 4. Gul Makai
51. The length breadth and height of a cuboid are in the ratio 4 : 3 : 2. If the volume of cuboid is 1536 cm³, then what will be the total surface area of the cuboid?
1. 868 cm² 2. 416 cm² 3. 624 cm² 4. 832 cm²
52. The length, breadth and height of a solid cuboid is 20 cm, 16 cm and 12 cm respectively. If cuboid is mettled to form identical cubes of side 4 cm, then what will be the number of identical cubes?
1. 56 2. 72 3. 90 4. 60
53. A bike covers a certain distance at a speed of 56 km/hr in 16 hours. How much time it will take to cover the same distance at the speed of 64 km/hr?
1. 14 hr 2. 18 hr 3. 16 hr 4. 12 hr
54. What is the value of $\left(3 \times 1500 \div 40 + 5 \div \frac{2}{7} \text{ of } 70\right)$?
1. $\frac{433}{4}$ 2. $\frac{435}{4}$ 3. $\frac{451}{4}$ 4. $\frac{473}{4}$
55. Curved surface area of a cylinder is 110 cm². If the height of cylinder is 5 cm, then what will be the diameter of its base?
1. 14 cm 2. 7 cm 3. 3.5 cm 4. 10.5 cm
56. Mohit and Sumit start a business with investment of ₹ 74000 and ₹ 96000 respectively. If at the end of the year they earn profit in the ratio of 5 : 8, then what will be the ratio of the time period for which they invest their money?
1. 37 : 32 2. 13 : 18 3. 25 : 32 4. 30 : 37
57. The value of discount of 18% on first article is equal to the value of discount of 13% on second article. What is the ratio of the marked price of two articles?
1. 17 : 24 2. 39 : 50 3. 13 : 18 4. 13 : 19
58. What will be the Highest Common Factor of 5, 10 and 20?
1. 5 2. 10 3. 1 4. 15
59. The average weight of 12 boxes is 63 kg. If four boxes having an average weight of 70 kg are removed, then what will be new average weight of the remaining boxes?
1. 60 kg 2. 59 kg 3. 60.5 kg 4. 59.5 kg
60. F alone can complete a work in 24 days and G alone can complete the same work in 32 days. F and G start the work together but G leaves the work 8 days before the completion of work. In how many days the total work will be completed?
1. $\frac{130}{5}$ days 2. $\frac{106}{7}$ days 3. $\frac{114}{7}$ days 4. $\frac{120}{7}$ days
61. Working 2 hours in a day, P can complete a work in 10 days and working 5 hours in a day, Q can complete the same work in 6 days. Working 3 hours in a day, in how many days both P and Q together can complete the same work?
1. 3 days 2. 6 days 3. 4 days 4. 5 days
62. Mohit purchases eggs at the rate of ₹ 3 per egg and sells them at the rate of ₹ 5 per egg. On selling 35 eggs, what will be the profit percentage?
1. 33.33% 2. 40% 3. 60% 4. 66.66%
63. A bag has white and yellow balls in the ratio 7 : 11 respectively. If the total number of balls is 108, then how many balls are yellow?
1. 66 2. 44 3. 64 4. 77
64. Varun purchases 75 articles for ₹ 3150 and sells them at a profit equal to the cost price of 15 articles. What will be the selling price of one article?
1. ₹ 42 2. ₹ 51.5 3. ₹ 50.4 4. ₹ 46.5
65. The average age of students is A and the average age of teachers is B. The number of students is 45 times of the number of teachers. What is average age of students and teachers together?

Elementary Mathematics

51. What is the median of the given data?
2, 3, 2, 3, 6, 5, 4, 7
1. 4 2. 4.5 3. 3.5 4. 3
52. A sum becomes five times of itself in 8 years at simple interest. What is the rate of interest per annum?
1. 37.5% 2. 25% 3. 62.5% 4. 50%
53. The table given below shows the marks obtained by 4 students in 5 subjects. The maximum marks of each student is 100.

Subjects	Students			
	P1	P2	P3	P4
S1	89	100	92	91
S2	62	52	72	37
S3	57	55	70	65
S4	76	85	76	58
S5	85	70	66	62

What is the difference in the average marks per student for subject S5 and S2?

1. 12 2. 15 3. 17.5 4. 19.5

1. $\frac{45A+8B}{7}$ 2. $\frac{45A+B}{46}$ 3. $\frac{45A+B}{8}$ 4. $\frac{45A+4B}{23}$

69. The table given below shows the number of students enrolled in different courses of different colleges?

Colleges	Courses			
	B1	B2	B3	B4
C1	65	56	65	103
C2	68	58	71	112
C3	72	54	88	125
C4	76	52	75	120
C5	69	60	79	126

What is the difference in the total number of students enrolled in colleges C3 and C4?

1. 13 2. 11 3. 12 4. 16
70. Ram, Sita and Salma invest ₹ 16000, ₹ 22000 and ₹ 18000 respectively to start a business. If the profit at the end of the year is ₹ 26600, then what is share of Ram?
1. ₹ 10450 2. ₹ 8550 3. ₹ 9650 4. ₹ 7600
71. A student got 24% marks in an exam and he failed by 56 marks. If he got 60% marks, then his marks are 70 more than the minimum passing marks. What is the maximum marks for the exam?
1. 350 2. 260 3. 380 4. 280
72. What is the value of $\left[75 \div 25 \text{ of } \left(\frac{4}{3} - \frac{1}{2} + \frac{1}{6}\right)\right]$?
1. $\frac{5}{6}$ 2. 3 3. $\frac{7}{6}$ 4. 5
73. Raju travels at $\frac{3}{4}$ of his usual speed and reaches his office 24 minutes late than his usual time. If Raju travels at his usual speed, then what will be the time taken by him to reach his office?
1. 64 minutes 2. 72 minutes 3. 48 minutes 4. 56 minutes
74. Compound interest received on a sum in 5th year is ₹ 1200 (interest is compounded annually). If the rate of interest is 22.5% per annum, then what will be the interest in 6th year?
1. ₹ 1470 2. ₹ 1270 3. ₹ 1200 4. ₹ 270
75. The table given below shows the production of rice and the area under rice cultivation of a country for 5 consecutive years Y1, Y2, Y3, Y4 and Y5.

Year	Rice Production (in 1000 kg)	Area Under Rice Cultivation (in 100 square meter)
Y1	520	130
Y2	570	190
Y3	680	150
Y4	720	180
Y5	850	170

What is the yield per square meter for the year Y3?

1. 37.66 kg 2. 63.33 kg 3. 45.33 kg 4. 52.50 kg

English

76. Select the most appropriate word to fill in the blank.
We should always remember not to _____ any problems and issues that may affect our career in any organisation.
1. affect 2. undertake 3. inflict 4. create

77. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

After you will return from Bangalore, I will come and meet you.

1. After you will be returning from
2. No improvement
3. After you returned from
4. After you return from

78. Select the antonym of the given word

AWKWARD

1. Problematic 2. Convenient 3. Difficult 4. Matchless

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given.

Seafood exports from India (1) _____ yet to gather momentum as (2) _____ prices, adverse weather conditions and (3) _____ continue to affect stocking of shrimps, which account for about three-fourths of the (4) _____ from export of marine products. This apart, seafood exporters are facing (5) _____ from the Seafood Import Monitoring Programme (SIMP) being implemented by the US and it is one of the largest buyers of Indian shrimps.

79. Select the most appropriate option that will fill in the blank number 1.
1. be 2. has 3. are 4. was
80. Select the most appropriate option that will fill in the blank number 2.
1. low 2. little 3. small 4. high
81. Select the most appropriate option that will fill in the blank number 3.
1. diseases 2. viruses 3. bugs 4. maladies
82. Select the most appropriate option that will fill in the blank number 4.
1. takings 2. income 3. cash 4. revenue
83. Select the most appropriate option that will fill in the blank number 5.
1. rapture 2. pleasure 3. capture 4. pressure
84. From the given options, identify the segment in the sentence which contains the grammatical error.

The government's interim budget from this financial year contained several measures which have the forthcoming elections in mind.

1. from this financial year
2. Government's interim budget
3. which have the
4. contained several measures
85. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

While learning to drive, one of the most of important things is to know the traffic rules first.

1. No improvement 2. When learned to drive
3. When learn driving 4. When learn to drive
86. From the given options, identify the segment in the sentence which contains the grammatical error.

Soon after returning to office, the CBI chief transfer five officers.

1. returning to office, 2. the CBI chief
3. transfer five officers 4. Soon after
87. Select the correctly spelt word.
1. Substitushion 2. Substitution
3. Substitiution 4. Sabstitution

88. Select the option that means the same as the given idiom.
To cut both ends
1. To reject all arguments
2. To argue in support of both sides
3. To consider the truth and untruth
4. To argue against both sides of an issue
89. Select the antonym of the given word.
EUPHORIA
1. Folklore 2. Lethargy 3. Song 4. Music
90. Select the correctly spelt word.
1. Magnanemous 2. Magnanomous
3. Magnanimous 4. Magnonimus
91. From the given options, identify the segment in the sentence which contains the grammatical error.
The Builder's Associations want GST exemption for government projects which have already proposed.
1. which have already proposed.
2. want GST exemption
3. for government projects
4. The Builder's Associations
92. Select the most appropriate option to fill in the blank.
Is it true that the students from the Space Research Centre _____ this evening?
1. are arriving 2. is arriving
3. has arriving 4. have arriving
93. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.
These flowers smell sweetly, and are sold at high prices in the market.
1. These flowers will smell sweetly
2. These flowers smelt sweetly
3. No improvement
4. These flowers smell sweet
94. Select the word which means the same as the group of words given.
One who studies antique things
1. Historian 2. Sociologist
3. Archaeologist 4. Antiquarian
95. Select the synonym of the given word.
INCORRIGIBLE
1. Reliable 2. Unwise
3. Intelligible 4. Unalterable
96. Select the most appropriate word to fill in the blank.
Although I was _____ of his new plans for growth of company, I relied on him as he was very honest.
1. persuaded 2. committed 3. convinced 4. sceptical
97. Select the word which means the same as the group of words given.
One who offers one's services without anything in return
1. Volunteer 2. Entrepreneur
3. Businessman 4. Investor
98. Select the synonym of the given word.
DISHEVELLED
1. Unsafe 2. Unclean 3. Uncertain 4. Untidy
99. Choose the correct meaning of the following idiom.
To get away with
1. To escape from something
2. To go away from home
3. To finish an assignment
4. To go to an unknown place
100. Select the most appropriate option to fill in the blank.
_____ example helps understand a concept better.
1. Few 2. A 3. An 4. One

Answer Key

1. (2)	2. (1)	3. (1)	4. (1)	5. (1)	6. (3)	7. (1)	8. (3)	9. (4)	10. (4)
11. (1)	12. (4)	13. (3)	14. (1)	15. (3)	16. (4)	17. (3)	18. (1)	19. (1)	20. (4)
21. (3)	22. (1)	23. (4)	24. (2)	25. (3)	26. (4)	27. (2)	28. (1)	29. (3)	30. (1)
31. (1)	32. (3)	33. (2)	34. (2)	35. (1)	36. (4)	37. (1)	38. (1)	39. (2)	40. (4)
41. (4)	42. (1)	43. (4)	44. (2)	45. (3)	46. (2)	47. (4)	48. (2)	49. (1)	50. (4)
51. (3)	52. (4)	53. (2)	54. (4)	55. (4)	56. (1)	57. (3)	58. (2)	59. (4)	60. (3)
61. (1)	62. (4)	63. (4)	64. (3)	65. (4)	66. (1)	67. (3)	68. (2)	69. (4)	70. (4)
71. (1)	72. (2)	73. (2)	74. (1)	75. (3)	76. (4)	77. (4)	78. (2)	79. (3)	80. (4)
81. (1)	82. (4)	83. (4)	84. (1)	85. (1)	86. (3)	87. (2)	88. (2)	89. (2)	90. (3)
91. (1)	92. (1)	93. (4)	94. (4)	95. (4)	96. (4)	97. (1)	98. (4)	99. (1)	100. (3)

Answers with Explanations

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

Given equations ; $10 + 10 \times 10 - 10 \div 10 = -89$

Upon checking option (2) and interchanging \times and \div , we get:

$$10 + 10 \div 10 - 10 \times 10 = -89$$

On solving,

$$\Rightarrow 10 + 1 - 10 \times 10 = -89$$

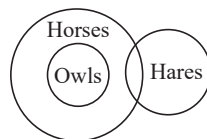
$$\Rightarrow 11 - 100 = -89$$

$$\Rightarrow -89 = -89$$

LHS = RHS.

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

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



Conclusion-I) Some owls are hares - False.

Conclusion-II) Some hares are horses - True.

Hence, Only conclusion II follows.

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

Given series: 13, 25, 42, 69, ?

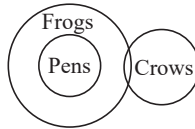
The pattern followed here is:

$$\begin{array}{cccccc}
 13 & 25 & 42 & 69 & 111 & \\
 & +12 & +17 & +27 & +42 & \\
 & & +5 & +10 & +15 & \\
 & & & +5 & +5 &
 \end{array}$$

Hence, 111 is the correct answer.

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

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



Conclusion-I) No pen is a crow - May be possible.

Conclusion-II) Some pens are crows - May be possible. Hence, either conclusion I or conclusion II follows.

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

Given series: 112, 108, 92, 56, ?

The pattern followed here is;

$$112 - (2)^2 = 108$$

$$108 - (4)^2 = 92$$

$$92 - (6)^2 = 56$$

$$56 - (8)^2 = -8$$

Hence, -8 is the correct answer.

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

The given figure is embedded in option (3) as highlighted below:



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

The pattern followed here is:

Option-1) CEK → C + E + K = 3 + 5 + 11 = 19

Option-2) AHI → A + H + I = 1 + 8 + 9 = 18

Option-3) DFH → D + F + H = 4 + 6 + 8 = 18

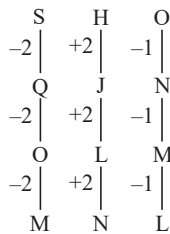
Option-4) CFI → C + F + I = 3 + 6 + 9 = 18

Hence, CEK is the odd one out.

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

Given series: SHO, QJN, OLM, ?

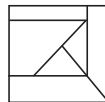
The pattern followed here is:



Hence, MNL is the correct answer.

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

According to the pattern followed and the symmetry, the required answer figure is:



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

Given that: 22 : 88 : 37 : ?

The pattern followed here is:

$$(\text{Sum of digit of } 1^{\text{st}} \text{ term}) \times 1^{\text{st}} \text{ term} = 2^{\text{nd}} \text{ term}$$

So,

$$(2 + 2) \times 22$$

$$= 4 \times 22 = 88$$

Similarly,

$$(3 + 7) \times 37$$

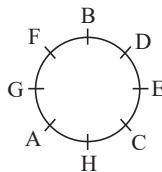
$$= 10 \times 37 = 370$$

Hence, 370 is the correct answer

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

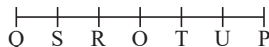
According to the statements, following sitting arrangement can be made:

Hence, D is sitting between B and E.



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

According to the statements, following sitting arrangement can be made:



Hence, S is sitting between Q and R.

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

In the given analogy, ichthyology is the study of fishes. Similarly, Pedology is the study of soil.

Hence, soil is the correct answer.

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

The values given in the diagram are cubes of 2, 3, 4, etc.

$$(2)^3 = 8$$

$$(3)^3 = 27$$

$$(4)^3 = 64$$

$$(5)^3 = 125$$

$$(6)^3 = 216$$

$$(7)^3 = 343$$

Hence, 343 is the correct answer.

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

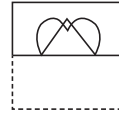
In the given figure series, the position of the shape is moving half step forward in clock-wise direction.

Hence, the required answer figure is:



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

After folding the given sheet, it will appear as follows:



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

According to the question, following arrangement can be made:

Day	Teacher	Subject
Monday	K	Social Science
Tuesday	L	Arts
Wednesday	J	Science
Thursday	M	English
Friday	O	Maths
Saturday	N	Hindi

Hence, L teaches on Tuesday.

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

In the mirror image, left becomes right and right becomes left. So, the required mirror image is:



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

Given that: POTATO is written as AOOPTT

Here, the letters are placed in ascending order.

As,

$$\text{POTATO} \rightarrow \text{AOOPTT}$$

Similarly,

$$\text{BARBER} \rightarrow \text{ABBERR}$$

Hence, ABBERR is the correct option.

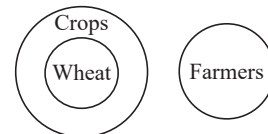
20. **Option (4) is correct.**

In the given options, 97, 89, and 83 are prime numbers. Whereas, 63 is a non-prime number. Hence, 633 is the correct answer.

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

Given classes: Wheat, Crops, Farmers.

The diagram that best illustrates the given classes is:



22. Option (1) is correct.

In the given options, yellow is a primary color, whereas, pink, purple and orange are secondary colors which are formed by mixing 2 primary colors.

Hence, yellow is the correct answer.

23. Option (4) is correct.

Given that: Achieve : Fail :: Gloomy : ?

Here, the 1st term is the antonym of 2nd term.

So, antonym of gloomy is cheerful.

Hence, cheerful is the correct answer.

24. Option (2) is correct.

Given that : BFH : DHJ :: GKM : ?

The pattern followed here is:

$$\begin{array}{ccc} B & F & H \\ +2 \downarrow & +2 \downarrow & +2 \downarrow \\ D & H & J \end{array}$$

Similarly,

$$\begin{array}{ccc} G & K & M \\ +2 \downarrow & +2 \downarrow & +2 \downarrow \\ I & M & O \end{array}$$

Hence, IMO is the correct answer.

25. Option (3) is correct.

Given that: SAW is written as 38.

Here, the letters of the word are assigned their reverse positional values.

As,

$$\begin{array}{ccc} \text{Reverse} \downarrow S & \text{Reverse} \downarrow A & \text{Reverse} \downarrow W \\ H(8) & Z(26) & D(4) \end{array}$$

$$\Rightarrow 8 + 26 + 4 = 38$$

Similarly,

$$\begin{array}{cccc} \text{Reverse} \downarrow F & \text{Reverse} \downarrow E & \text{Reverse} \downarrow E & \text{Reverse} \downarrow D \\ U(21) & V(22) & V(22) & W(23) \end{array}$$

$$\Rightarrow 21 + 22 + 22 + 23$$

$$\Rightarrow 88$$

Hence, 88 is the correct answer.

26. Option (4) is correct.

The Indian Constitution safeguards against exploitation through Articles 23-24, which prohibit human trafficking, forced labour, and the employment of children in hazardous occupations.

27. Option (2) is correct.

Sachin Tendulkar scored his 100th century at the Shere Bangla National Stadium, against Bangladesh. This historic milestone was achieved during an Asia Cup match on March 16, 2012.

28. Option (1) is correct.

Kaziranga National Park is in the state of Assam, India. It is famous for its large population of Indian one-horned rhinoceroses and holds the distinction of being a UNESCO World Heritage Site.

29. Option (3) is correct.

The Government of India has declared Odia as a 'classical' language. This recognition was granted based on the languages rich literary heritage, antiquity, and its contribution to Indian culture and civilization.

30. Option (1) is correct.

The correct order is:

- Champaran Satyagraha against indigo plantation was in 1917.
- The Rowlatt Satyagraha was a nonviolent civil disobedience campaign that began on April 6, 1919.
- The Non-Cooperation Khilafat Movement was launched on August 31, 1920.
- The Simon Commission arrived in India in 1928.

31. Option (1) is correct.

The 52nd Amendment to India's Constitution in 1985 introduced the Anti-defection law to prevent frequent party-switching among politicians. This law mandates that lawmakers lose their position if they leave their party unless they can prove a significant change or split within the party.

32. Option (3) is correct.

The Mettur Dam, situated on the Kaveri River in Tamil Nadu, is vital for water management and irrigation in the area. Its primary function is to regulate the flow of the Kaveri River, ensuring a stable water supply for agricultural needs in the region.

33. Option (2) is correct.

The personality popularly known as the 'father of the Indian Film industry' is Dadasaheb Phalke. He is credited with making India's first full-length feature film, "Raja Harishchandra," in 1913, thus laying the foundation for the Indian cinema industry.

34. Option (2) is correct.

Sher Shah Suri introduced a standardized currency system in ancient India, including the silver coin called the 'Rupiya'. This coin revolutionised trade and commerce during his era and continues to influence India's monetary system today.

35. Option (1) is correct.

The Kani shawl is a traditional craft from Jammu & Kashmir, woven using the "Kani weaving technique." Originating from the town of Kanihama in the Kashmir Valley.

36. Option (4) is correct.

The stamp by the finance minister is NOT correct. Credit refers to an agreement in which the lender supplies the borrower with money, goods, or services in return for the promise of future payment.

37. Option (1) is correct.

The Ranji Trophy is a domestic cricket tournament played among various teams representing state cricket associations in India. It has no connection to football.

38. Option (1) is correct.

Scurvy is caused by a deficiency of Vitamin C. This essential vitamin, also known as ascorbic acid, plays a crucial role in collagen synthesis, which is important for the health of connective tissues, skin, and blood vessels.

39. Option (2) is correct.

The bamboo drip irrigation system in Meghalaya uses bamboo pipes to transport water from natural sources to fields for irrigation. This ancient and eco-friendly method helps farmers efficiently manage water resources for cultivation.

40. Option (4) is correct.

Anthracite is known for its high carbon content, low moisture, and superior energy density. It burns cleanly with little smoke or odour and produces intense heat, making it highly desirable for various industrial and residential applications. Anthracite is considered the highest quality and most valuable type of hard coal.

41. Option (4) is correct.

The Treaty of Purandar, signed in 1665, ended the first phase of the Mughal-Maratha wars. The treaty required the Marathas to withdraw from Jinji and serve as vassals to the Mughal Emperor Aurangzeb. In exchange, the Mughals granted the Marathas rights to collect taxes in six Deccan provinces.

42. Option (1) is correct.

The process used in Parliament to remove the President of India is called an Impeachment Motion. It can be started in either house of Parliament and needs a special majority for approval. If both houses pass the motion, the President can be ousted from office for violating the Constitution or engaging in serious misconduct. Article 61 of the Indian constitution deals with the process of impeachment of the president.

43. Option (4) is correct.

International Tropical Timber Organization is an organization that promotes sustainable management and conservation of tropical forests. International Tropical Timber Organization was formed in 1986. Its headquarters is located at Yokohama in Japan.

44. Option (2) is correct.

The Reserve Bank of India (RBI) is responsible for issuing currency notes in India. Established in 1935, the RBI serves as the country's central bank and is entrusted with various functions, including the issuance and regulation of currency.

45. Option (3) is correct.

The pH scale's neutral point is 7. So, any solution with a pH of 7 is neither acidic nor alkaline; it's neutral.

46. Option (2) is correct.

Bananas turn brown in colour because the air reacts with the enzymes in the bananas.

47. Option (4) is correct.

Excise duty is a tax that the government charges on making, selling, or using specific goods in a country. It's usually applied when the goods are made, meaning it's taxed during their production within the country.

48. Option (2) is correct.

The author of "India's Export Trends and Prospects for Self-Sustained Growth" is Dr. Manmohan Singh, who served as the Prime Minister of India from 2004 to 2014.

49. Option (1) is correct.

The Hornbill Festival takes place in Nagaland, India. It's a major cultural event that highlights the traditions, customs, and heritage of the Naga tribes.

50. Option (4) is correct.

The biopic of Malala Yousafzai is titled "Gul Makai." It tells the remarkable story of Malala's bravery in standing up for girls' education despite facing challenges, such as surviving an assassination attempt by the Taliban.

51. Option (3) is correct.

Increasing order of given numbers = 2, 2, 3, 3, 4, 5, 6, 7

$$\text{So, median} = \frac{3+4}{2} = 3.5$$

52. Option (4) is correct.

Let the sum = P

So, SI earned in 5 years = 5P - P = 4P

Time = 8 years

$$\text{Using, SI} = \frac{\text{PRT}}{100}$$

$$\Rightarrow 4P = \frac{\text{P} \times \text{R} \times 8}{100}$$

$$\Rightarrow \text{R} = 50\%$$

53. Option (2) is correct.

According to the given table,

Average marks of the students in subjects S2

$$= \frac{62 + 52 + 72 + 37}{4} = 55.75$$

Average marks of the students in subjects S5

$$= \frac{85 + 70 + 66 + 62}{4} = 70.75$$

So, required difference = 70.75 - 55.75 = 15

54. Option (4) is correct.

Let the length, breadth and height of cuboid are 4x, 3x and 2x respectively.

Using, volume of cuboid = LBH

$$\Rightarrow 4x \times 3x \times 2x = 1536$$

$$\Rightarrow x = 4$$

So, length = 16 cm

Breadth = 12 cm

Height = 8 cm

Total surface area = 2(LB + BH + HL)

$$= 2(16 \times 12 + 12 \times 8 + 16 \times 8)$$

$$= 832 \text{ cm}^2$$

55. Option (4) is correct.

Given,

Length = 20 cm

Breadth = 16 cm

Height = 12 cm

So, volume of cuboid = 20 × 16 × 12 = 3840 cm³

Volume of cube of side 4 cm = 4 × 4 × 4 = 64 cm³

$$\text{Hence, required number of cubes} = \frac{3840}{64} = 60$$

56. Option (1) is correct.

Let the distance = D

Using, Distance = speed × time

$$\text{Distance} = 56 \times 16 = 896 \text{ km}$$

So, required time to cover the same distance at the speed of 64

$$\text{km/h} = \frac{896}{64} = 14 \text{ hr}$$

57. Option (3) is correct.

The value of,

$$= 3 \times 1500 \div 40 + 5 \div \frac{2}{7} \text{ of } 70,$$

$$= 3 \times 1500 \div 40 + 5 \div 20$$

$$= \frac{450}{4} + \frac{1}{4}$$

$$= \frac{451}{4}$$

58. Option (2) is correct.

Given that curved surface area of cylinder = 110 cm²

Height of cylinder = 5 cm

Using, surface area of cylinder = 2πrh

$$\Rightarrow 110 = 2 \times \frac{22}{7} \times r \times 5$$

$$\Rightarrow r = 3.5 \text{ cm}$$

So, diameter of base = 3.5 × 2 = 7 cm

59. Option (4) is correct.

Let Mohit and Sumit invested for x months and y months respectively.

$$\text{According to the question, } \frac{74000x}{96000y} = \frac{5}{8}$$

$$\Rightarrow \frac{x}{y} = \frac{30}{37}$$

60. Option (3) is correct.

Let the MRP of both articles are x and y respectively.

According to the question, $\frac{18}{100}x = \frac{13}{100}y$

$$\Rightarrow \frac{x}{y} = \frac{13}{18}$$

61. Option (1) is correct.

$$5 = 1 \times 5$$

$$10 = 2 \times 5$$

$$15 = 3 \times 5$$

So, HCF of 5, 10 and 20 = 5

62. Option (4) is correct.

According to the question,

Total weight of 12 boxes = $12 \times 63 = 756$ kg

And total weight of 4 boxes = $70 \times 4 = 280$ kg

So, average weight of 8 boxes = $\frac{756 - 280}{8} = 59.5$ kg

63. Option (4) is correct.

Given that,

Time taken by F to complete the work = 24 days

Time taken by G to complete the work = 32 days

Let the total work = LCM (24, 32) = 96 units

So, efficiency of F = $\frac{96}{24} = 4$ unit per day

And efficiency of G = $\frac{96}{32} = 3$ unit per day

According to the question,

Work done by F in last 8 days = $8 \times 4 = 32$ units

Hence, remaining work done by F and G = $\frac{96 - 32}{4 + 3} = \frac{64}{7}$

So, total time = $8 + \frac{64}{7} = \frac{120}{7}$ days

64. Option (3) is correct.

According to the question,

Time taken by P to complete the work = $2 \times 10 = 20$ hr

Time taken by Q to complete the work = $6 \times 5 = 30$ hr

Let total work = LCM(20, 30) = 60 units

So, efficiency of P = $\frac{60}{20} = 3$ unit per day

Efficiency of Q = $\frac{60}{30} = 2$ unit per day

So, time taken by P and Q together, working 3 hours in a day

$$= \frac{60}{(3+2) \times 3} = 4 \text{ days}$$

65. Option (4) is correct.

Cost of 1 egg = ₹ 3

Selling price of 1 egg = ₹ 5

So, profit percentage = $\frac{5-3}{3} \times 100 = 66.66\%$

66. Option (1) is correct.

Total number of balls = 108

So, number of yellow balls = $108 \times \frac{11}{7+11} = 66$

67. Option (3) is correct.

According to the question,

Cost price of each article = $\frac{3150}{75} = ₹ 42$

Let the SP of each article = ₹ x

So, $75x = 75 \times 42 + 15 \times 42$

$\Rightarrow x = ₹ 50.4$

68. Option (2) is correct.

Given that the average age of students is A and the average age of teachers is B.

Let the number of teachers = x

So, the number of students = $45x$

Now, average of students and teachers together = $\frac{45Ax + Bx}{45x + x}$
 $= \frac{45A + B}{46}$

69. Option (4) is correct.

According to the given graph,

Total number of students enrolled in C3 = $72 + 54 + 88 + 125 = 339$

Total number of students enrolled in C4 = $76 + 52 + 75 + 120 = 323$

So, required difference = $339 - 323 = 16$

70. Option (4) is correct.

Investment of Ram = ₹ 16000

Investment of Sita = ₹ 22000

Investment of Salma = ₹ 18000

So, ratio of their investment = $16000 : 22000 : 18000 = 8 : 11 : 9$

So, Ram's share in profit = $26600 \times \frac{8}{8+11+9} = ₹ 7600$

71. Option (1) is correct.

Given that,

A student got 24% marks in an exam and he failed by = 56 marks

And the student got 60% marks in an exam and he got more marks than passing marks = 70 marks

Let the passing marks = x

According to the question $\frac{60}{100}x - \frac{24}{100}x = 56 + 70$

$\Rightarrow x = 350$

72. Option (2) is correct.

The value of, $75 \div 25$ of $\left(\frac{4}{3} - \frac{1}{2} + \frac{1}{6}\right)$,

= $75 \div 25$ of (1)

= $75 \div 25 = 3$

73. Option (2) is correct.

Ratio of speed of Raju while going to office and coming back

= 4 : 3 Distance = Speed \times time

Time \propto (1/Speed)

So, ratio of time = 3 : 4

According to the question, $4x - 3x = 24$ min

Hence, usual time taken by him = $3 \times 24 = 72$ mins

74. Option (1) is correct.

Given that,

CI in 5th year = ₹ 1200

Rate = 22.5%

Interest in 6th year, interest being compounded annually =

$1200 + \left(\frac{22.5}{100} \times 1200\right) = ₹ 1470$

- 75. Option (3) is correct.**
From the given table,
Rice production in year Y3 = 680000 kg
The area under cultivation in year Y3 = 15000 square meter
Yield per square meter in Y3 = $\frac{680000}{15000} = 45.33$ kg
- 76. Option (4) is correct.**
We should always remember not to create any problems and issues that may affect our career in any organisation. It is said that problems are 'created', which means to bring (something) into existence. They cannot be affected or undertake nor inflicted (imposed).
- 77. Option (4) is correct.**
After you return from Bangalore, I will come and meet you. 'After you return from' will replace 'After you will return from'. In this conditional sentence, simple present tense must be used in the subordinate clause (After you return from Bangalore), and simple future in the principal clause (I will come and meet you).
- 78. Option (2) is correct.**
Awkward means causing or feeling uneasy embarrassment or inconvenience. Example: I found myself in an awkward position when my parents were discussing my deplorable performance in exams. So, the antonym is convenient.
- 79. Option (3) is correct.**
Seafood exports from India are yet to gather momentum. The passage gives some facts and data and prevalently uses present tense. So the blank needs a plural verb in simple present tense that aligns with the plural subject (Seafood exports). So 'are' is the appropriate choice.
- 80. Option (4) is correct.**
Seafood exports from India are yet to gather momentum as high prices, adverse weather conditions... The sentence indicates that certain factors are impacting the exports of seafood. So, the reasons will be undesirable that lead to such a situation. So high price will affect stocking of shrimps, leading to low exports.
- 81. Option (1) is correct.**
Seafood exports from India are yet to gather momentum as high prices, adverse weather conditions and diseases continue to affect stocking of shrimps. The stocking of shrimps can be highly impacted by dint of diseases that affect shrimps.
- 82. Option (4) is correct.**
Seafood exports from India are yet to gather momentum as high prices, adverse weather conditions and diseases continue to affect stocking of shrimps, which account for about three-fourths of the revenue from export of marine products. The statement clarifies that shrimp export is responsible for three-fourths of the revenue from export of marine products. It is known that exports help a country earn revenue, not takings, cash or income.
- 83. Option (4) is correct.**
This apart, seafood exporters are facing pressure from the Seafood Import Monitoring Programme (SIMP) being implemented by the US and it is one of the largest buyers of Indian shrimps. The sentence argues that the Seafood Import Monitoring Programme has been influencing and coercing the seafood exporters.
- 84. Option (1) is correct.**
The government's interim budget for this financial year contained several measures which have the forthcoming elections in mind. The part 'from this financial year' will be replaced by 'for this financial year'. The conjunction must indicate a period of time (this financial year), and hence the use of 'for'. 'From' suggest a point of time.
- 85. Option (1) is correct.**
While learning to drive, one of the most of important things is to know the traffic rules first. The sentence is correct in terms of grammar and syntax. With the use of 'one of', the verb is always singular (is).
- 86. Option (3) is correct.**
Soon after returning to office, the CBI chief transfer five officers. The phrase 'transfer five officers' will be replaced by 'transferred five officers'. Simple past tense is used to describe an action that happened before the present time and is no longer happening. Here, the event points to the time when the CBI chief returns to office, after that he took an action.
- 87. Option (2) is correct.**
The correctly spelt word is 'Substitution' which meaning replacement.
- 88. Option (2) is correct.**
'To cut both ends' means to argue in support of both sides.
- 89. Option (2) is correct.**
Euphoria is a feeling of extreme happiness or confidence. Example: I couldn't contain my euphoria when my father bought a Tesla for our family. Therefore, Lethargy is the antonym.
- 90. Option (3) is correct.**
Magnanimous is the correctly spelt word, it means very kind and generous towards an enemy or someone you have defeated. Although she is rude, it is her magnanimous nature that made her appealing among the people.
- 91. Option (1) is correct.**
The Builder's Associations want GST exemption for government projects which have already been proposed. The part 'which have already proposed' will be substituted by 'which have already been proposed'. The present perfect tense takes the structure: has/have + been + participle verb.
- 92. Option (1) is correct.**
Is it true that the students from the Space Research Centre are arriving this evening? The Present Continuous Tense is used to denote future action when the plan is an arrangement – already confirmed.
- 93. Option (4) is correct.**
These flowers smell sweet, and are sold at high prices in the market. 'These flowers smell sweet' will replace 'These flowers smell sweetly'. Smell sweet is correct because we it describes the smell of flowers, had it been otherwise- the flowers are smelling something, then 'sweetly' is appropriate.
- 94. Option (4) is correct.**
Historian is a person who studies and writes about the past and is regarded as an authority on it. Sociologist studies human behaviour, interaction, and organization. Archaeologist studies human prehistory. Antiquarian is a person who studies or collects antiques or antiquities.

95. Option (4) is correct.

Incorrigible is bad beyond correction or reform. So , 'Unalterable' is the correct synonym.

96. Option (4) is correct.

The correct sentence is: Although I was sceptical of his new plans for growth of company, I relied on him as he was very honest. Sceptical means doubting that something is true or useful. The use of 'although' evinces the positioning of opposing facts- doubtful of his new plans for growth of company, yet relying on him as he was very honest.

97. Option (1) is correct.

Volunteer is a person who voluntarily undertakes or expresses a willingness to undertake a service. Entrepreneur is an individual who creates and/or invests in one or more businesses, bearing most of the risks and enjoying most of the rewards. Businessman is a man who works in commerce,

especially at executive level. Investor is any person or other entity (such as a firm or mutual fund) who commits capital with the expectation of receiving financial returns.

98. Option (4) is correct.

Dishevelled is untidy. Example: He reached office in such hurry that we were taken aback by his dishevelled state. So, 'untidy' is the synonym.

99. Option (1) is correct.

To get away with is to make an escape; leave . Example: He thought he could get away with his tricks and bullying. So, the correct meaning is 'to escape from something'.

100. Option (3) is correct.

The correct sentence is: An example helps understand a concept better. An is used before a noun that starts with a vowel sound (e.g., "a," "o," "i").