

STAFF SELECTION COMMISSION

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

SOLVED PAPER

(25th November 2021: 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

- Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.
1. NPLR 2. YAWD 3. SUQW 4. PRNT
- Presently Suman is four times as old as her son. Five years ago, she was seven times as old as her son. What is the age of her son?
1. 11 years 2. 10 years 3. 16 years 4. 12 years
- Select the set of classes the relationship among which is best illustrated by the given Venn diagram.
1. Mercury, Planets, Venus
2. Businessmen, Scientists, Singers
3. Spinach, Vegetables, Peach
4. Women, Swimmers, Men
- A cube is made by folding the given sheet. In the cube so formed, select the number that will be on the face opposite the face showing the number '4'.
1. 2 2. 3 3. 6 4. 5
- Select the figure that will replace the question mark (?) in the following figure series:
1.  2.  3.  4. 
- Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
1. Nervous 2. Nobility 3. Nebulizer
4. Nominate 5. Nitrogen
1. 3, 4, 2, 5, 1 2. 3, 1, 5, 2, 4
3. 3, 5, 1, 2, 4 4. 3, 1, 2, 5, 4
- The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?


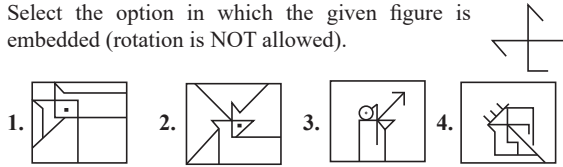
-  2.  3.  4. 
- In a certain code language, 'FALSE' is coded as '2141588'. How will 'CHOICE' be coded in that language?
1. 24191812248 2. 6181921288
3. 24181924128 4. 6191812822
- Select the number from among the given options that can replace the question mark (?) in the following series.
1, 8, 81, ?, 15625
1. 1015 2. 1225 3. 1227 4. 1024
- Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
CNK : JUR :: FJL : ?
1. NPR 2. MQS 3. OSU 4. KOQ
- Select the number from among the given options that can replace the question mark (?) in the following series.
2, 10, 30, ?, 130
1. 68 2. 65 3. 70 4. 75
- If 'A' denotes 'addition', 'B' denotes 'multiplication', 'C' denotes 'subtraction', and 'D' denotes 'division', then what will be the value of the following expression?
483 D 23 A 93 C 16 B 4C (15 B 2)
1. 30 2. 78 3. 20 4. 55
- Select the correct mirror image of the given combination when the mirror is placed at PQ as shown


- COIILNIIILX 2. YTIUIITIOO
- YTIUIITIOO 3. COIILNIIILX
- Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
All pens are pencils.
Some markers are pencils.
Conclusions:
I. All pens are markers.

II. Some pens are markers.

1. Only conclusion II follows
2. None of the conclusions follow
3. Only conclusion I follows
4. Both the conclusions follow

15. Select the option in which the given figure is embedded (rotation is NOT allowed).



16. In a certain code language, 'LUCKNOW' is written as 'CULKWON' and 'UDAIPUR' is written as 'ADUIRUP'. How will 'GWALIOR' be written in that language?

1. WGLAROI 2. AGWLRIO 3. AWGROIL 4. AWGLROI

17. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

EIM, QUY, CGK, ?

1. DHL 2. LPT 3. SWA 4. OSW

18. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

34 18 43

47 ? 28

71 33 61

1. 42 2. 25 3. 35 4. 19

19. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

11 : 77 :: 12 : ? :: 14 : 119

1. 90 2. 97 3. 83 4. 79

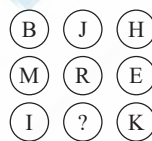
20. Nisha, who is Dileep's daughter, says to Deveshi, "Your mother Ritu is the younger sister of my father, who is the second child of Krishna". How is Krishna related to Deveshi?

1. Paternal grandfather 2. Father-in-law
3. Father 4. Maternal grandfather

21. Seven doctors, S, T, U, V, X, Y and Z, are sitting around a round table, facing towards the centre, for a case study. Y is sitting third to the right of Z and between S and X. Z is sitting second to the right of U. V is sitting third to the left of X. Two doctors are sitting between Y and V. Based on the given information, which of the following statements is correct?

1. Z is sitting between T and X.
2. S is sitting fourth to the left of T.
3. U is sitting to the immediate right of V.
4. Four doctors are sitting between Y and Z.

22. Study the given pattern carefully and select the letter that can replace the question mark (?) in it.



1. T 2. V 3. U 4. S

23. M, N, L, O, Q and H are sitting in a row. Q and H are in the centre. M and N are at the ends. L is sitting to the left of N. Who is to the right of M?

1. N 2. O 3. L 4. Q

24. In a certain code language, 'nuk me xil' means 'lit this light', 'ki me to' means 'the bright light', and 'nuk ki yun' means 'this is bright'. What will be the code for 'lit' in that language?

1. nuk 2. yun 3. xil 4. me

25. Cataract is related to 'Eye' in the same way as Meniere's disease is related to '_____'.
1. Nose 2. Mouth 3. Teeth 4. Ear

General Knowledge & General Awareness

26. The difference between the total revenue and total expenditure of the government is called _____.

1. fiscal deficit 2. budgetary deficit
3. deflation 4. primary deficit

27. Who among the following is NOT a hockey player?

1. Ajit Singh 2. Manu Bhaker
3. Deepika Thakur 4. Akashdeep Singh

28. In which macaronic language was a fourteenth-century text, the Lilatilakam, written?

1. Rekhta 2. Brahmi
3. Manipravalam 4. Mozakhraf

29. According to the Public Affairs Index 2020, which among the following has been adjudged the best governed state in the country in the large states category?

1. Kerala 2. Uttar Pradesh
3. Odisha 4. Rajasthan

30. Which of the following books is NOT authored by Shashi Tharoor?

1. The Hindu Way: An Introduction to Hinduism (2019)
2. An Era of Darkness: The British Empire in India (2016)
3. Making India Awesome (2015)
4. The Paradoxical Prime Minister (2018)

31. The human eye is like a camera. Its lens system forms an image on a light sensitive screen called the _____.

1. cornea 2. iris 3. retina 4. pupil

32. Which of the following is an example of primary activity of the economic sector of India?

1. Forestry 2. Transport
3. Communication 4. Cloth weaving

33. Federalism is one of the key features of the Constitution of India, under which:

1. The head of the government is also head of the state
2. states draw their authority from the Parliament
3. all persons in India are governed by laws and policies made by the Judiciary only
4. states are not just the agents of the Federal government

34. In India, National Epilepsy Day 2020 was celebrated on:

1. 17 November 2. 28 November
3. 25 November 4. 1 November

35. _____ is the science that studies the structure of the body.

1. Anatomy 2. Cytology
3. Palynology 4. Palaeobotany

36. Who among the following was PETA India's Person of the year 2019?

1. Virat Kohli 2. Sonam Kapoor
3. Anushka Sharma 4. PV Sindhu

37. Which of the following countries will host the 2022 Asian Games?

1. Indonesia 2. China
3. Japan 4. South Korea

38. Anopheles is a _____ which carries the parasite of malaria.

1. female mosquito 2. housefly
3. male mosquito 4. spider

39. Which of the following countries hosted the 13th BRICS Summit in 2021?

1. India 2. China 3. Russia 4. Brazil

40. The _____ is the final authority of making laws in any democratic country.

1. Prime Minister 2. Parliament
3. Law Minister 4. President

72. A certain sum amounts to ₹9,900 in 4 years and to ₹11,700 in 7 years at the same rate per cent per annum at simple interest. What will be the amount (in ₹) of the same sum at $9\frac{2}{3}\%$ for $2\frac{1}{4}$ years at simple interest?
 1. 9,541.50 2. 9,165.75 3. 10,000.00 4. 9,131.25
73. The ratio of two numbers a and b is 5 : 8. If 5 is subtracted from a and 3 is added to b, then the ratio becomes 8 : 15. What is the difference between the two original numbers?
 1. 24 2. 36 3. 30 4. 27
74. The sum of two numbers is 35 and HCF and LCM of these numbers are 5 and 60, respectively. Find the sum of the reciprocals of the numbers.
 1. $\frac{3}{25}$ 2. $\frac{4}{15}$ 3. $\frac{7}{60}$ 4. $\frac{5}{60}$
75. A cylindrical tank is 80 cm in diameter and 5.6 m in height. The cost (in ₹) of painting the curved surface of the tank at the rate of ₹20/m² is:
 (Take $\pi = \frac{22}{7}$)
 1. 281.60 2. 301.80 3. 321.20 4. 261.40
- English**
76. Select the option that can be used as a one-word substitute for the given group of words.
 The branch of biology that deals with the relations of organisms to one another and to their physical surroundings.
 1. Anthropology 2. Ecology
 3. Gerontology 4. Morphology
77. Select the most appropriate option to fill in the blank.
 It is a disorder that manifests usually in middle _____.
 1. ages 2. age 3. life 4. year
78. Parts of the given sentence have been given as options. One of them contains a grammatical error. Select the option that has the error.
 Lack of calcium in human body usually leads against several health complications.
 1. leads against 2. several health complications
 3. Lack of calcium 4. in human body
79. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
 Sharada was cooking lunch/when I am going/to give her/the mobile phone.
 1. Sharada was cooking lunch 2. to give her
 3. the mobile phone 4. when I am going
80. Select the most appropriate meaning of the given idiom.
 Having a soft spot for
 1. Being too ridiculous 2. Having soft skin
 3. Being fond of 4. Being angry
81. Select the most appropriate ANTONYM of the given word.
 Ignorance
 1. Knowledge 2. Truth 3. Innocence 4. Virtue
82. Select the option that can be used as a one-word substitute for the given group of words.
 Someone who buys and sells goods in large amounts to shops and businesses
 1. Wholesaler 2. Merchant 3. Supplier 4. Dealer
83. Select the most appropriate synonym of the given word.
 Coincidence
 1. Extent 2. Accent 3. Chance 4. Incident
84. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
 Leopards and cats are belong to the same family of animals.
 1. No substitution required 2. belong
 3. belongs 4. belonging
85. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.
Neglected for a long time, the ancient monument needs immediate restoration.
 1. Neglecting from a long time
 2. No improvement required
 3. Having neglect for a long time
 4. Neglected in the long time
86. Select the most appropriate option to fill in the blank.
 An important _____ of education is to develop character.
 1. scheme 2. purpose 3. means 4. image
87. Select the most appropriate meaning of the given idiom.
 To be on pins and needles
 1. To be in an agitated state of suspense
 2. To sit on a box of pins
 3. To be attacked from both sides
 4. To avoid making a decision
88. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
 Mala's voice is much more melodious to Gita.
 1. much more melodious than Gita's
 2. much melodious to Gita's
 3. much more melodious to Gita's
 4. No substitution required
89. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
 The eldest/prince is/the heir/of the throne.
 1. of the throne 2. The eldest 3. the heir 4. prince is
90. Select the most appropriate option to fill in the blank.
 He was in _____ of the costumes for the play.
 1. charge 2. care
 3. duty 4. responsibility
91. Select the most appropriate ANTONYM of the given word.
 Damage
 1. Hurt 2. Ruin 3. Harm 4. Mend
92. Select the option that can be used as a one-word substitute for the given group of words.
 One who cannot be changed or reformed
 1. Invincible 2. Inevitable 3. Incapable 4. Incurable
93. Select the INCORRECTLY spelt word.
 1. Magnificent 2. Gregarious
 3. Commitment 4. Persuasion
94. Select the INCORRECTLY spelt word.
 1. Unassuming 2. Unflappable
 3. Unruffled 4. Unanimous
95. Select the most appropriate synonym of the given word.
 Mirth
 1. Delight 2. Joint 3. Scene 4. View
- Comprehension:**
 In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
 A tic is a repeated, impulsive action, which an actor feels powerless (1) _____ or avoid. Only when the individual performs the tic, is tension and anxiety (2) _____, within the individual with a tic disorder. Tics can be (3) _____ by an emotional state or sensation, and can happen for no obvious

reason. General types of tics (4) _____ verbal tics, facial tics and (5) _____ muscular tics.

96. Select the most appropriate option to fill in blank number 1.
1. controls 2. controlling 3. to control 4. controlled
97. Select the most appropriate option to fill in blank number 2.
1. modified 2. stored 3. added 4. released

98. Select the most appropriate option to fill in blank number 3.
1. done 2. began 3. triggered 4. elicited
99. Select the most appropriate option to fill in blank number 4.
1. include 2. included 3. including 4. includes
100. Select the most appropriate option to fill in blank number 5.
1. the other 2. others 3. another 4. other

Answer Key

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

Answers with Explanations

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

The pattern followed here is:

Option 1) N $\xrightarrow{+2}$ P $\xrightarrow{-4}$ L $\xrightarrow{+6}$ R

Option 2) Y $\xrightarrow{+2}$ A $\xrightarrow{-4}$ W $\xrightarrow{+7}$ D

Option 3) S $\xrightarrow{+2}$ U $\xrightarrow{-4}$ Q $\xrightarrow{+6}$ W

Option 4) P $\xrightarrow{+2}$ R $\xrightarrow{-4}$ N $\xrightarrow{+6}$ T

Hence, YAWD is the odd one out.

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

Let the present age of Suman be x and the present age of her son be y .

According to the question,

$$x = 4 \times y$$

Five years ago, Suman was seven times as old as her son.

$$\Rightarrow x - 5 = 7 \times (y - 5)$$

Now, putting the value of x from equation (i), we get

$$\Rightarrow 4y - 5 = 7y - 35$$

$$\Rightarrow 35 - 5 = 7y - 4y$$

$$\Rightarrow 30 = 3y$$

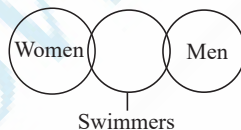
$$\Rightarrow y = 10$$

Hence, the age of Suman's son is 10 years.

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

The set of classes - Women, Swimmers, Men

Best illustrated by the given Venn diagram.



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

According to the given cube sheet, following opposite pairs will be formed:

$$3 - 6$$

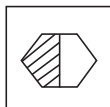
$$5 - 1$$

$$4 - 2$$

Hence, 2 will be opposite to number 4.

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

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



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

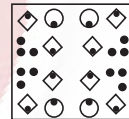
The correct order of the given words is:

3. Nebulizer	1. Nervous	5. Nitrogen	2. Nobility	4. Nominate
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Hence, 3, 1, 5, 2, 4 is the correct order.

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

After unfolding the given sheet, following image can be formed.



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

Given that: FALSE is coded as 2141588

The pattern followed here is:

The consonants have been assigned their opposite Positional value and 3 is added to the value of vowels.

So,

F(6)	A(1)	L(12)	S(19)	E(5)
opp.	+3	opp.	opp.	+3
21	4	15	8	8

Similarly, for CHOICE:

C(3)	H(8)	O(15)	I(9)	C(3)	E(5)
opp.	opp.	+3	+3	opp.	+3
24	19	18	12	24	8

Hence, 24191812248 is the correct answer.

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

Given series: 1, 8, 81, ?, 15625

The pattern followed here is:

$$(1)^2 = 1$$

$$(2)^3 = 8$$

$$(3)^4 = 81$$

$$(4)^5 = 1024$$

$$(5)^6 = 15625$$

Hence, 1024 is the correct answer.

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

Given that: CNK : JUR :: FJL : ?

The pattern followed here is:

C	N	K
+7	+7	+7
J	U	R

Similarly,

$$\begin{array}{ccc} \text{F} & \text{J} & \text{L} \\ +7 \downarrow & +7 \downarrow & +7 \downarrow \\ \text{M} & \text{Q} & \text{S} \end{array}$$

Here, MQS is the correct answer.

11. Option (1) is correct.

Given series: 2, 10, 30, ?, 130

The pattern followed here is:

$$(1)^3 + 1 = 2$$

$$(2)^3 + 2 = 10$$

$$(3)^3 + 3 = 30$$

$$\text{Hence, } (4)^4 + 4 = 68$$

$$(5)^5 + 5 = 130$$

Hence, 68 is the correct answer.

12. Option (3) is correct.

Given that: 483 D 23 A 93 C 16 B 4 C (15 B 2)

After putting the signs as per question, we get:

$$483 \div 23 + 93 - 16 \times 4 - (15 \times 2)$$

$$\Rightarrow 21 + 93 - 64 - 30$$

$$\Rightarrow 114 - 94 = 20$$

Hence, 20 is the correct answer.

13. Option (2) is correct.

In the mirror image, left because right and right becomes left.

Hence, the require mirror image is:

P
CONTINUITY | YTIUINIOO
Q

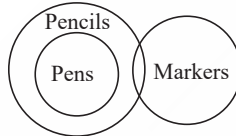
14. Option (2) is correct.

As per the given statements, following Venn diagram can be made:

Conclusion I - All pens are makers - false.

Conclusion II - Some pens are markers - false.

Hence, none of the conclusions follow.



15. Option (1) is correct.

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



16. Option (4) is correct.

Given that: LUCKNOW is written as CULKWON

The pattern followed here is:

L U C K N O W
X X X X X X X
L U C K W O N

And, UDAIPUR is written as ADUIRUP.

U D A I P U R
X X X X X X X
A D U I R U P

Similarly, for GWALIOR

G W A L I O R
X X X X X X X
A W G L R O I

Hence, AWGLROI is the correct answer.

17. Option (4) is correct.

Given series: EIM, QUY, CGK, ?

The pattern followed here is:

$$\text{E} \xrightarrow{+4} \text{I} \xrightarrow{+4} \text{M}$$

$$\text{Q} \xrightarrow{+4} \text{U} \xrightarrow{+4} \text{Y}$$

$$\text{C} \xrightarrow{+4} \text{G} \xrightarrow{+4} \text{K}$$

Similarly, in option (4),

$$\text{O} \xrightarrow{+4} \text{S} \xrightarrow{+4} \text{W}$$

Hence, OSW is the correct answer.

18. Option (2) is correct.

The pattern followed here is:

Column-wise:

$$(3^{\text{rd}} \text{ term} - 1^{\text{st}} \text{ term}) + 10 = 2^{\text{nd}} \text{ term.}$$

$$\text{Column - 1) } (71 - 34) + 10$$

$$\Rightarrow 37 + 10 = 47$$

$$\text{Column - 3) } (61 - 43) + 10$$

$$\Rightarrow 18 + 10 = 28$$

Similarly,

$$\text{Column - 2) } (33 - 18) + 10$$

$$\Rightarrow 15 + 10 = 25$$

Hence, 25 is the correct answer.

19. Option (1) is correct.

Given that: 11 : 77 :: 12 : ? :: 14 : 119

The pattern followed here is:

$$(1^{\text{st}} \text{ term} + 3) \times (1^{\text{st}} \text{ term} \div 2) = 2^{\text{nd}} \text{ term}$$

So,

$$(11 + 3) \times (11 \div 2)$$

$$\Rightarrow 14 \times \frac{11}{2}$$

$$\Rightarrow 7 \times 11 = 77$$

$$\text{And, } (14 + 3) \times (12 \div 2)$$

$$\Rightarrow 17 \times \frac{14}{2}$$

$$\Rightarrow 17 \times 7 = 119$$

Similarly,

$$(12 + 3) \times (12 \div 2)$$

$$\Rightarrow 15 \times \frac{12}{2}$$

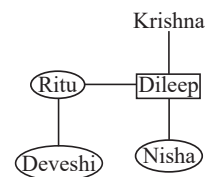
$$\Rightarrow 15 \times 6 = 90$$

Hence, 90 is the correct answer.

20. Option (4) is correct.

As per the question, following family tree can be made:

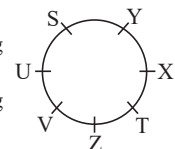
Since, Krishna's gender is not specified here, So, as per the options given, Krishna is the Maternal grandfather of Deveshi.



21. Option (2) is correct.

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

Hence, the correct statement is S is sitting fourth to the left of T.



22. Option (1) is correct.

The pattern followed here is:

Row-wise

The positional values of 1st alphabet + 3rd alphabet = 2nd alphabet.

$$\text{Row-1) B(2) J(10) H(8)}$$

$$\Rightarrow 2 + 8 = 10$$

Row-2) M(13) R(18) E(5)

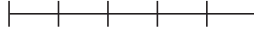
$$\Rightarrow 13 + 5 = 18$$

Similarly, in Row-3) I(9) T(20) K(11)

$$\Rightarrow 9 + 11 = 20$$

Hence, T is the correct answer.

23. Option (2) is correct.

According to the question,  following sitting arrangement M O Q/H Q/H L N can be made:

Hence, O is sitting to the right of M.

24. Option (3) is correct.

Given that

nuk me xil \rightarrow lit this light

(ki) me to \rightarrow the (bright) light

nuk (ki) yun \rightarrow this is (bright)

Hence, the code for 'lit' is 'nil'.

25. Option (4) is correct.

In the given analogy, Cataract is a disease which affects the eyes. Similarly, meniere's is a disease which affects the ear.

Hence, ear is the correct answer.

26. Option (1) is correct.

It is the difference between the total revenue and total expenditure of the government, including borrowings during a financial year. In other words, fiscal deficit measures the total borrowing requirements of the government. It is an important indicator of the financial health of a government and reflects the extent to which the government needs to borrow to meet its expenditures.

27. Option (2) is correct.

Manu Bhaker is not a hockey player. She is an accomplished Indian shooter, specializing in pistol events.

28. Option (3) is correct.

Manipravalam is a blend of Sanskrit and Malayalam, kind of like a mix. Lilatilakam, a book from the 14th century, was written in this language. The book is significant because it talks about grammar and poetry in the Malayalam language.

29. Option (1) is correct.

In the Public Affairs Index 2020, Kerala has been recognized as the best-governed state in the large states category. This index evaluates how well states and union territories are governed by looking at different factors like social and economic development, meeting sustainable development goals, and overall governance performance.

30. Option (3) is correct.

This book is not authored by Shashi Tharoor. It is written by Chetan Bhagat, an Indian author.

31. Option (3) is correct.

The retina is like the camera film at the back of your eye. It's a layer that can sense light and has special cells (rods and cones) that turn light into signals. These signals travel to the brain through the optic nerve, creating the image you see.

32. Option (1) is correct.

Forestry is an example of a primary activity. It involves the extraction of natural resources from the environment, such as wood from forests. This falls under the primary sector, which deals with raw materials and natural resources.

33. Option (4) is correct.

In India, there is a system called federalism. It means that there are states and a central government, and both have their own powers. States are not just agents; they're like their own bosses with certain rules to follow, as written in the Constitution.

34. Option (1) is correct.

National Epilepsy Day in India is celebrated on 17th November every year.

35. Option (1) is correct.

Anatomy is a scientific study that focuses on understanding the structure of the body and its components. This field involves closely examining the physical relationships between different parts of the body.

36. Option (1) is correct.

Virat Kohli earned the title of PETA India's Person of the Year for 2019. As a vegetarian and a vocal supporter of animal rights, he has leveraged his influence to shine a spotlight on concerns like animal cruelty in slaughterhouses, the dairy industry, and the use of animals in circuses.

37. Option (2) is correct.

China hosted the 2022 Asian Games. The Asian Games are a multi-sport event held every four years among athletes from all over Asia.

38. Option (1) is correct.

Anopheles is a type of mosquito, and the female ones are the carriers of the malaria parasite. These female mosquitoes need blood to lay their eggs. If a female mosquito is infected with the malaria parasite and bites a person to get blood, it can pass on the malaria parasite to that person.

39. Option (1) is correct.

India hosted the 13th BRICS Summit in 2021. The theme of the summit was "BRICS@15: Intra-BRICS Cooperation for Continuity, Consolidation and Consensus."

40. Option (2) is correct.

In any democratic country, the Parliament is the final authority for making laws. The Parliament is the legislative branch of government and is responsible for proposing, debating, amending, and passing laws. It is made up of elected representatives who stand for the people and take decisions on their behalf. The Prime Minister, Law Minister, and President play important roles in the legislative process, but the ultimate authority for making laws lies with the Parliament.

41. Option (4) is correct.

Kulik Bird Sanctuary is in West Bengal, India. It is a protected area that serves as a habitat for various species of migratory birds, making it a significant site for birdwatching and conservation efforts.

42. Option (1) is correct.

Holt Mackenzie and Robert Merttins Bird introduced the Mahalwari System in 1822. This system was about collecting money for land directly from farmers in a village. It depended on how much the land could produce, and the villagers paid collectively.

43. Option (3) is correct.

During the Swadeshi Movement in Bengal, a tricolour flag was designed. The Swadeshi Movement was a part of the larger Indian independence movement and aimed at promoting the use of Indian goods and the boycott of British goods. The tricolour flag designed during this movement had three horizontal stripes of red, green, and yellow. It symbolized the unity and spirit of the movement.

44. Option (1) is correct.

As of July 2021, the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB-PM-JAY) has NOT been implemented in the state of West Bengal.

45. Option (4) is correct.

Diwali, also called Deepavali, happens during the dark night of the Kartik month in the Hindu calendar. It is a festival of lights, a big celebration all over India. Diwali is about good winning over bad and light conquering darkness.

46. Option (3) is correct.

When a good is produced by exploiting natural resources, it falls into the category of the agriculture sector. Agriculture is about growing crops, raising animals, and making things like food, clothing, and medicines. Farmers depend a lot on natural things like soil, water, and sunlight to do this kind of work.

47. Option (1) is correct.

Commercial farming is not necessarily limited to lesser developed countries. It involves making lots of crops and animals to sell for profit, using advanced technology and machinery to work more efficiently.

48. Option (4) is correct.

The Mumbai Indians won the Indian Premier League (IPL) in 2020 for the second consecutive year and fifth overall. In 2020, the Indians defeated the Delhi Capitals by five wickets in the IPL final on November 10, 2020. The Mumbai Indians have won the IPL five times in total.

49. Option (4) is correct.

In 1972, the Bengal tiger was chosen as India's official 'National Animal.'

50. Option (4) is correct.

Bahadur Shah II, also known as Bahadur Shah Zafar, was the last Mughal emperor of India. He reigned from 1837–1858 and died in 1862. Bahadur Shah II was born on October 24, 1775 to Mughal Emperor Akbar Shah II and Lal Bai. His birth name was Abu Zafar Sirajuddin Muhammad Bahadur Shah. He was not his father's first choice as successor.

51. Option (2) is correct.

According to the question,

Work can be done by P and Q together in 9 days, P finishes it in 15 days.

Let remaining work = LCM(9, 15) = 45 units

$$\text{So, efficiency of P} = \frac{45}{15} = 3 \text{ unit/day}$$

$$\text{Now, complete work} = \frac{45}{9} \times 21 = 105 \text{ units}$$

$$\text{So, time required by P to complete the whole work alone} = \frac{105}{3} = 35 \text{ days}$$

52. Option (2) is correct.

According to the question,

$$\text{Total height of 23 boys} = 1.2 \times 23 = 27.6 \text{ m}$$

$$\text{After leaving 3 boys, their total height} = 20 \times (1.2 + 0.15) = 27 \text{ m}$$

$$\text{Now, total height of 3 boys} = 27.6 - 27 = 0.6 \text{ m}$$

$$\text{Hence, average height of these three boys} = \frac{0.6}{3} = 0.2 \text{ m}$$

53. Option (3) is correct.

Let the price of rice = ₹ x

After discount, selling price = ₹ $0.9x$

According to the question,

$$\Rightarrow \frac{720}{0.9x} - \frac{720}{x} = 5$$

$$\Rightarrow x = 16$$

54. Option (3) is correct.

Given that,

$$\text{Speed of the train} = 120 \text{ km/h}$$

$$\text{So, time taken to cover 720 km without stopping} = \frac{720}{120} = 6 \text{ hr}$$

According to the question,

$$\text{Total required time} = 6 \text{ hr} + 8 \times 4 \text{ min} = 6 \text{ hr } 32 \text{ min}$$

55. Option (2) is correct.

Given that,

$$\text{The cost of levelling} = ₹ 6.50 / \text{m}^2$$

$$\text{Total cost} = ₹ 36036$$

$$\text{So, area of circle} = \frac{36036}{6.5} = 5544 \text{ m}^2$$

$$\text{Using, area of circle} = \pi r^2$$

$$\Rightarrow 5544 = \frac{22}{7} \times r^2$$

$$\Rightarrow r = 42$$

$$\text{Circumference of the circle} = 2\pi r = 2 \times \frac{22}{7} \times 42 = 264 \text{ m}$$

$$\text{Hence, required cost of fencing} = 264 \times 18 = ₹ 4752$$

56. Option (4) is correct.

$$\text{The value of } 20 - [7 - \{4 - (8 - 6 + 3)\}]$$

$$= 20 - [7 - \{4 - (8 - 9)\}]$$

$$= 20 - [7 - \{4 + 1\}]$$

$$= 20 - [7 - 5]$$

$$= 18$$

57. Option (3) is correct.

According to the question,

$$\text{Selling price of the article} = \frac{5}{8} \times \text{CP}$$

$$\Rightarrow \frac{\text{SP}}{\text{CP}} = \frac{5}{8}$$

$$\text{Hence, loss percentage} = \frac{8-5}{8} \times 100 = 37.5\%$$

58. Option (2) is correct.

$$\text{One-third of 90} = \frac{1}{3} \times 90 = 30$$

$$\text{Three-eighths of 160} = \frac{3}{8} \times 160 = 60$$

$$\text{Required percentage} = \frac{60-30}{60} \times 100 = 50\%$$

59. Option (1) is correct.

Given that the sum of three numbers = 172

According to the question,

$$\text{I} : \text{II} = 3 : 5$$

$$\text{II} : \text{III} = 7 : 6$$

$$\text{So, I} : \text{II} : \text{III} = 21 : 35 : 30$$

$$\text{Hence, first number I} = 172 \times \frac{21}{86} = 42$$

60. Option (4) is correct.

$$\text{LCM of 21, 35 and 56} = 840$$

$$\text{So, required number} = 840 \times 12 = 10080$$

61. Option (2) is correct.

Given that,

$$\text{Time taken by A to complete to work} = \frac{15}{2} \text{ days}$$

$$\text{Time taken by B to complete to work} = 15 \text{ days}$$

$$\text{Time taken by C to complete to work} = 30 \text{ days}$$

Let total work = LCM $\left(\frac{15}{2}, 15, 30\right) = 30$ units

Efficiency of A = $\frac{30}{\frac{15}{2}} = 4$ unit/day

Efficiency of B = $\frac{30}{15} = 2$ unit/day

Efficiency of C = $\frac{30}{30} = 1$ unit/day

Remaining work after 3 days = $30 - (4 + 2) \times 3 = 12$ units

Time taken by B and C to complete the remaining work = $\frac{12}{2+1} = 4$ days

So, required number of days = $4 + 3 = 7$ days

62. Option (3) is correct.

Let the numbers are $8x$ and $5x$ respectively.

According to the question,

$$\Rightarrow \frac{8x-17}{5x+25} = \frac{1}{3}$$

$$\Rightarrow 24x - 51 = 5x + 25$$

$$\Rightarrow 19x = 76$$

$$\Rightarrow x = \frac{76}{19} = 4$$

So, sum of numbers = $8x + 5x = 13 \times 4 = 52$

63. Option (1) is correct.

Let the third number = 100

So, first number = 80

And second number = 70

$$\text{Required percentage} = \frac{70}{80} \times 100 = 87.5\%$$

64. Option (2) is correct.

$$\text{Using, SI} = \frac{P \times R \times T}{100}$$

According to the question,

$$\Rightarrow P + \frac{P \times 12 \times 19}{100 \times 4} - \frac{P \times 12 \times 11}{100} = 2175$$

$$\Rightarrow 400P + 228P - 528P = 870000$$

$$\Rightarrow P = 8700$$

65. Option (1) is correct.

The value of $\frac{5}{14} \div 5\frac{3}{7}$ of $\frac{7}{19} - \left(\frac{3}{4} - \frac{4}{7}\right)$,

$$= \frac{5}{14} \div 2 - \frac{5}{28}$$

$$= \frac{5}{28} - \frac{5}{28}$$

$$= 0$$

66. Option (3) is correct.

According to the question,

$$\text{Cost price of one orange} = \frac{193.2}{23} = ₹ 8.4$$

$$\text{Selling price of one orange} = \frac{108}{12} = ₹ 9$$

$$\text{So, profit percentage} = \frac{9-8.4}{8.4} \times 100 = 7.1\%$$

67. Option (2) is correct.

$$\text{Using, speed} = \frac{\text{distance}}{\text{time}}$$

$$\text{So, speed} = \frac{17}{2} = 8.5 \text{ km/h}$$

68. Option (3) is correct.

$$\text{Using, SI} = \frac{P \times R \times T}{100}$$

According to the question,

$$360 = \frac{1800 \times R \times 10}{100 \times 3}$$

$$\Rightarrow R = 6\%$$

69. Option (2) is correct.

MRP of clock = ₹ 1200

$$\text{After 10\% discount, selling price} = 1200 \times \frac{90}{100} = ₹ 1080$$

According to the question, additional discount required = $1080 - 945 = ₹ 135$

$$\text{So, required percentage discount} = \frac{135}{1080} \times 100 = 12.5\%$$

70. Option (1) is correct.

Let total number of workers = x

Total salary of all workers = $9000x$

Total salary of 8 technicians = $14000 \times 8 = ₹ 112000$

Total salary of remaining workers = $(x - 8) \times 5000 = 5000x - 40000$

$$\text{So, } 9000x = 112000 + 5000x - 40000$$

$$\Rightarrow x = 18$$

71. Option (4) is correct.

Given that,

Price of table and chair = ₹ 2200

Let the cost price of table and chair are ₹ x and ₹ y respectively.

$$\text{So, } x + y = 2200 \quad \dots(1)$$

According to the question,

$$1.15x + 0.95y = 1.04 \times 2200 = 228800 \quad \dots(2)$$

From eq. (1) and (2),

$$x = 990$$

So, cost of table = ₹ 990

72. Option (4) is correct.

Given that,

Total amount in 4 years = ₹ 9900

Total amount in 7 years = ₹ 11700

So, amount earned in these 3 years = $11700 - 9900 = 1800$

$$\text{Hence, SI for 1 year} = \frac{1800}{3} = ₹ 600$$

So, principal amount $P = 9900 - 600 \times 4 = 7500$

$$\text{Now, total amount} = 7500 + \frac{7500 \times 29 \times 9}{100 \times 3 \times 4} = ₹ 9131.25$$

73. Option (4) is correct.

Given that,

Let the numbers are $5x$ and $8x$.

According to the question,

$$\Rightarrow \frac{5x-5}{8x+3} = \frac{8}{15}$$

$$\Rightarrow 75x - 75 = 64x + 24$$

$$\Rightarrow x = 9$$

Required difference = $8x - 5x = 3 \times 9 = 27$

74. Option (3) is correct.

Given that,

Let the numbers are $5x$ and $5y$.

According to the question,

$$5x + 5y = 35$$

$$x + y = 7 \quad \dots(1)$$

$$\text{and } 5xy = 60$$

$$xy = 12 \quad \dots(2)$$

from eq. (1) and (2),

$$x = 4 \text{ and } y = 3$$

$$1^{\text{st}} \text{ number} = 5 \times 4 = 20$$

$$2^{\text{nd}} \text{ number} = 5 \times 3 = 15$$

$$\text{So, sum of the reciprocal of both numbers} = \frac{1}{20} + \frac{1}{15} = \frac{7}{60}$$

75. Option (1) is correct.

Given that,

Diameter of cylinder = 80 cm or 0.8 m

Height of tank = 5.6 m

$$\text{So, curved surface area of cylinder} = 2\pi rh = 2 \times \frac{22}{7} \times 0.4 \times 5.6 = 14.08 \text{ m}^2$$

$$\text{Hence, cost of painting} = 14.08 \times 20 = ₹ 281.60$$

76. Option (2) is correct.

The branch of biology that deals with the relations of organisms to one another and to their physical surroundings is called ecology. Anthropology is the study of the human race, its culture and society, and its physical development. Gerontology is the scientific study of the phenomenon of aging, by which is meant the progressive changes that take place in a cell, a tissue, an organ system, or a total organism. Morphology is the study of the forms of things.

77. Option (2) is correct.

The sentence talks about 'disorder.' Out of the given options, only option (2) makes sense because it expresses the relationship between the disorder and age.

1. **Ages:** the length of time that a person has lived or a thing has existed, a very long time. Example: "I haven't seen her for ages."
2. **Age:** the length of time that a person has lived or a thing has existed. Example: "He must be nearly 40 years of age."
3. **Life:** the existence of an individual human being or animal. Example: "A disaster that claimed the lives of 266 people"
4. **Year:** the period of 365 days (or 366 days in leap years) starting from the first of January, used for reckoning time in ordinary circumstances.

78. Option (1) is correct.

The sentence is grammatically incorrect. The part 'lead against' is wrong, it should be 'leads to'. Since a lack of something will lead to health complications. The word 'against' will reverse the meaning of the sentence and assert that the lack of something will move someone away from health complications.

79. Option (4) is correct.

"The correct answer is 'when I am going', i.e., the error lies in this part because the previous part of the sentence is in past continuous tense, so the sentence will maintain tense consistency. The part 'when I am going' should be changed to 'when I went'."

80. Option (3) is correct.

Having a soft spot refers to feeling that you like someone very much. Example: She'd always had a soft spot for her younger nephew."

81. Option (1) is correct.

Ignorance means a lack of knowledge or information. Example: "He acted in ignorance of basic procedures." The antonym of 'ignorance' is 'knowledge.'

82. Option (1) is correct.

Someone who buys and sells goods in large amounts to shops and businesses is known as a wholesaler.

83. Option (3) is correct.

Coincidence means a remarkable concurrence of events or circumstances without apparent causal connection. Example: "It was a coincidence that she was wearing a jersey like Laura's." The synonym for 'coincident' is chance.

84. Option (2) is correct.

"The correct answer is 'belong.' The sentence is a factual statement. We always use the simple present tense to express a factual statement. The structure of the simple sentence is: subject + verb + s/es. Hence, the part 'are belong' should be changed to 'belong.'

85. Option (2) is correct.

The sentence is grammatically correct. Thus, no change is required.

86. Option (2) is correct.

The key in the given sentence is 'to develop character,' which makes it clear that the sentence expresses the reason for the education. Thus, the best word fit for the blank is 'purpose'.

87. Option (1) is correct.

To be on pins and needles is an idiom that means to be anxious and tense. Example: "She's waiting for the doctor to call with her test results, so she's been on pins and needles all day."

88. Option (1) is correct.

The sentence is grammatically incorrect. The comparative adjectives are followed by 'than' (exception: comparatives ending with -ior are followed by 'to'). Thus, the underlined part should be substituted by 'much more melodious than Geeta's.'

89. Option (1) is correct.

The sentence is grammatically incorrect. The incorrect part is 'of the throne.' It is an incorrect expression. The correct expression is 'heir to the throne.'

90. Option (1) is correct.

The blank requires a word that shows that the person is responsible for the costumes of the play. The best word in this context is 'in charge.'

91. Option (4) is correct.

Damage means hurt. The antonym of 'damage' is 'mend.'

92. Option (4) is correct.

One who cannot be changed or reformed is known as incorrigible. Invincible is too powerful to be defeated or overcome. Inevitable means certain to happen; unavoidable. Incapable means unable to do or achieve (something).

93. Option (1) is correct.

The incorrectly spelt word is 'magnificant.' It should be 'magnificent,' which means extremely beautiful, elaborate, or impressive. Example: "A dramatic landscape of magnificent mountains." Gregarious means (of a person) fond of company; sociable. Example: "He was a popular and gregarious man." Commitment means a pledge or undertaking. Example: "I cannot make such a commitment at the moment." Persuasion means the action or process of persuading someone or of being persuaded to do or believe something. Example: "Monica needed plenty of persuasion before she actually left."

94. Option (4) is correct.

The incorrectly spelt word is 'unannimous'. It should be 'unanimous,' which means fully in agreement. Unassuming means not pretentious or arrogant; modest. Example: "He was an unassuming and kindly man." Unflappable means having or showing calmness in a crisis. Example: "I prided myself on being unflappable even in the most chaotic circumstances." Unruffled means not disordered, calm, or disarranged. Example: "Robbie seemed unruffled by her words."

95. Option (1) is correct.

Mirth means amusement, especially as expressed in laughter. Example: "His six-foot frame shook with mirth." The synonym for 'mirth' is delight.'

96. Option (3) is correct

To connect the adjective 'powerless' with the verb "avoid," a preposition will be used. Correct sentence: A tic is a repeated, impulsive action that an actor feels powerless to control or avoid.

97. Option (4) is correct.

The previous sentence talks about tic being an impulsive action. The given sentence mentions that the tic helps in release tension. Thus, the best word for the blank is 'release.'

98. Option (3) is correct.

The sentence is about tic disorder. So, the best word in the blank is 'triggered.' Anything that starts a negative thing is termed 'triggered' rather than 'start.'

99. Option (1) is correct.

The best word for the blank is 'include,' because the sentence is a factual statement and factual statements are in the simple present tense. Also, because the subject is plural, the verb is plural.

100. Option (4) is correct.

The sentence talks about the general type of tics in the former part of the sentence and goes on to describe the rest of the tics in the other category. Thus, the apt word for the blank is 'other.'

OSWAAL

