

**STAFF SELECTION COMMISSION**

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

**SOLVED PAPER**

**(25<sup>th</sup> January 2023: Shift-2)**

**Time Allotted-** 1 hours

**Max marks-** 160

**Important Instructions:-**

- This paper contains 80 questions which are divided into 4 sections. Each section contains 20 questions.
- General Intelligence & Reasoning
- General Knowledge & General Awareness
- Elementary Mathematics
- English
- There will be 2 marks for each correct answer and also there will be negative marking of 0.5 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. Six students Jason, Tushar, Anand, Stacey, Steven and Max are sitting around a circular table facing the centre. Jason is sitting third to the right of Tushar. Anand is sitting second to the left of Jason. Steven is an immediate neighbour of Anand and Jason. Max is sitting to the immediate right of Jason. Stacey is to the immediate left of Tushar. Who is sitting between Max and Steven?
 

1. Stacey      2. Jason      3. Tushar      4. Anand
2. Which of the following numbers will replace the question marks (?) in the given series?  
31, 33, 36, 41, 48, ?, ?
 

1. 60, 74      2. 64, 78      3. 70, 82      4. 59, 72
3. In a certain code language, 'FLY' is coded as 43 and 'HAT' is coded as 29. How will 'BEACH' be coded in that language?
 

1. 19      2. 39      3. 22      4. 40
4. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below.
 

	P
(%E^VGHWS	
	Q

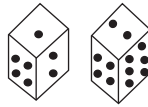
1. W2HG∇^E∞ (      2. W2HG∇^E∞ )  
3. W2HG∇∨E∞ (      4. W2HG∇^E∞ W
5. A, B, C, D, E, F, G and H are sitting around a square table facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides. E sits third to the left of G. E sits at one of the corners. B sits second to the right of F. F does not sit at any of the corners. F is not an immediate neighbour of E. H is an immediate neighbour of A. H does not sit in any of the middles of the sides. Only three people sit between H and C from either sides. If all the persons are made to sit in alphabetical order in a clockwise direction starting from A, then how many places does B shift in either direction with respect to its previous position?
 

1. 2      2. 3      3. 1      4. 4
6. 'Near' is related to 'Close' in the same way as 'Distant' is related to '\_\_\_\_\_'. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
 




1. Beside      2. Run      3. Away      4. Compass


7. Which of the following numbers will replace the question mark (?) in the given series?  
10, 0, 20, 10, 30, 20, 40, 30, ?
 


1. 50      2. 20      3. 40      4. 70
8. Two different positions of the same dice are shown having numbers 1 to 6 represented as dots. Find the number on the face opposite the face showing '1'.
 





1. 6      2. 4      3. 3      4. 2
9. Select the figure that will replace the question mark (?) in the following figure series.
 

			?
--------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	---

1. 

2. 

3. 






4. 
10. Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
 

**Statements:**  
All chocolates are biscuits.  
All chips are biscuits.  
All biscuits are potatoes.

**Conclusions:**  
I. All chips are potatoes.  
II. All potatoes are chocolates.  
III. Some potatoes are chips.

1. Only conclusions I and II follow  
2. All conclusions follow  
3. Only conclusions II and III follow  
4. Only conclusions I and III follow
11. Select the option that is related to the third word in the same way as the second word is related to the first word.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Extra : inadequate :: Appear : ?
 

1. Melt      2. People      3. Disappear      4. Sink

12. 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.  
27 : 189 :: 32 : ? :: 18 : 126  
1. 236      2. 220      3. 238      4. 224
13. Select the option figure in which the given figure is embedded as its part (rotation is not allowed). 
1.  2.  3.  4. 
14. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.  
FYBL, CVFP, ZSJT, ?, TMRB  
1. NTPS      2. WPNX      3. WLXP      4. NKEC
15. Which option represents the correct order of the given words as they would appear in the English dictionary?  
1 Ranked      2 Ragging      3 Rack      4 Rainbow  
5 Radar  
1. 3,5,2,4,1      2. 3,5,2,1,4      3. 3,4,2,5,1      4. 3,4,2,1,5
16. Which of the following letter-clusters will replace the question mark (?) and complete the following letter-cluster series?  
GS, EU, AW, UY, MA, ?  
1. BC      2. DC      3. CC      4. CB
17. If 'A' means 'subtraction', 'B' means 'division', 'C' means 'multiplication', and 'D' means 'addition', then what will be the value of following expression?  
8 A 80 B 16 C 90 D 21  
1. -463      2. -421      3. 463      4. 421
18. In a code language, 'She will come' is written as 'vu de ja', 'Come and eat' is written as 'te vu ma', 'all will eat' is written as 'ma nu ja'. What is the code for the word 'all' in that language?  
1. te      2. nu      3. ma      4. ja
19. Which of the mathematical signs should be interchanged in the below equation to make it mathematically correct?  
 $192 - 16 + 18 \times 6 \div 24 = 96$   
1. - and +      2. - and  $\times$       3. - and  $\div$       4.  $\times$  and  $\div$
20. In a certain code language,  
'A + B' means 'A is the mother of B',  
'A - B' means 'A is the father of B',  
'A  $\times$  B' means 'A is the brother of B' and  
'A & B' means 'A is the daughter of B'.  
How is N related to V if  $N \times L - T \& G + V$ ?  
1. Father's father      2. Father  
3. Brother      4. Father's brother

### General Knowledge & General Awareness

21. The SEVA app was launched by which of the following ministers to track coal dispatch?  
1. Ramvilas Paswan      2. Nitin Gadkari  
3. Piyush Goyal      4. Suresh Prabhu
22. Which among the following Vedas is the oldest?  
1. Sama      2. Rig      3. Atharva      4. Yajur
23. \_\_\_\_\_ was introduced during fifth five year plan.  
1. Minimum Needs Programme  
2. Day School  
3. Beti Bachao      4. Swachh Bharat
24. SME stands for small and \_\_\_\_\_ enterprises.  
1. medium-sized      2. manufacturing  
3. modern-sized      4. mid-term
25. Which of the following was the first BCCI president?  
1. RE Grant Govan      2. Anthony D'Mello  
3. Roger Binny      4. JC Mukherjee

### Elementary Mathematics

41. Jiya gets a discount of 30 percent and 10 percent on a bill. The total discount she got is:  
1. 39 percent      2. 37 percent      3. 40 percent      4. 35 percent
42. The cost price of 2 pens and 3 notebooks is ₹220 and the cost price of 2 pens and 4 notebooks is ₹250. Find the ratio between the cost price of the pen and the notebook.  
1. 5 : 13      2. 1 : 2      3. 13 : 6      4. 5 : 12
43. The least number which should be added to 1845 to make it divisible by 3, 4, 5 and 6 is:  
1. 12      2. 15      3. 3      4. 9

44. A person can row 66 km downstream in 6 h and 72 km upstream in 8 h. What is the speed of the current?  
1. 4 km/h    2. 2 km/h    3. 3 km/h    4. 1 km/h
45. Sonal, Kriti, and Priti together can complete a piece of work in 6 days while Kriti and Priti can do the same work separately in 30 and 18 days, then in how many days Sonal alone can do the same work?  
1.  $\frac{88}{7}$  days    2.  $\frac{14}{5}$  days    3.  $\frac{90}{7}$  days    4.  $\frac{66}{5}$  days
46. In a particular year the average monthly expenditure of Vipin was ₹6,250 during the first 4 months, ₹6,500 during the next 4 months, and ₹x during the remaining months of the year. If the total savings in the year was ₹15,000 and his monthly salary is ₹9,600, then find the value of x.  
1. ₹12,750    2. ₹12,000    3. ₹12,300    4. ₹13,000
47. The marked price of a general study book is Rs.800. If it is sold at 15% and 20% successive discounts, then find its selling price.  
1. ₹544    2. ₹534    3. ₹528    4. ₹520
48. The volume of a hemisphere is 32 times the volume of a sphere with radius 3 units. The diameter of the hemisphere is \_\_\_\_\_ units.  
1. 6    2. 24    3. 18    4. 12
49. A sum of money is paid back in two annual instalments of ₹1,25,000 each. If rate of interest is 6% per annum and interest is compounding annually, then find the sum borrowed. (Consider round up integral value)  
1. ₹1,50,375    2. ₹2,39,174  
3. ₹2,29,174    4. ₹1,19,375
50. A work can be finished by 10 men in 8 days and by 10 women in 7 days. In how many days will the work be finished if 10 women and 10 men work on alternate days, with the women starting on the first day?  
1.  $7\frac{3}{7}$     2. 7.5    3.  $7\frac{4}{7}$     4.  $7\frac{3}{8}$
51. A fruit vendor purchases oranges at ₹150, ₹90 and ₹75 per kg. These oranges purchased at three different prices are mixed in the ratio 4 : 5 : 6 respectively, and are sold at a profit of 40%. Find the selling price (in ₹) of oranges per kg.  
1. 160    2. 150    3. 140    4. 210
52. If the price of oil increases by 25 percent and Arpit increase the expenditure on oil by 10 percent, then by how much percent will he reduce the quantity of oil purchased?  
1. 22 percent    2. 42 percent    3. 12 percent    4. 88 percent
53. In a trapezium, the lengths of opposite parallel sides are 12 cm and 8 cm respectively, and the shortest distance between them is 16 cm, Find the area of the trapezium.  
1. 84.5 cm<sup>2</sup>    2. 144 cm<sup>2</sup>    3. 62.5 cm<sup>2</sup>    4. 160 cm<sup>2</sup>
54. In an election Santosh got 24000 more votes than Mantosh. If Mantosh and Santosh got 30% and 40% of the total votes respectively. Find the total number of votes cast.  
1. 250000    2. 254000    3. 240000    4. 245000
55. A shopkeeper bought 240 chocolates at ₹9 per dozen. If he sold all of them at ₹1 each, what was his profit percentage?  
1. 24%    2. 27%    3.  $33\frac{1}{3}\%$     4.  $66\frac{1}{6}\%$
56. Student's strength of a co-educational School is 3,000. If the ratio of the number of boys to the number of girls in the school is 4 : 1, then what is the mean proportion of the number of boys and girls in the School, given that only boys and girls are students in the school?  
1. 1300    2. 1400    3. 1100    4. 1200
57. If a natural number when divided by 5, 6 and 7 leaves a remainder 4 in each case, then what is the smallest possible three digit natural number?  
1. 218    2. 214    3. 212    4. 216
58. An aeroplane covers a certain distance at a speed 510 km/h in 3 h. To cover the same distance in  $10\frac{1}{5}$  h, it must fly at a speed of:  
1. 150 km/h    2. 250 km/h    3. 305 km/h    4. 230 km/h
59. The average of 8 numbers is 24. If one of the numbers is excluded, the average becomes 22. Find the excluded number.  
1. 38    2. 36    3. 37    4. 35
60. What is the difference between the compound interest, compounding annually and simple interest on ₹8,300 at 10% per annum for 2 years?  
1. ₹83    2. ₹1,743    3. ₹1,660    4. ₹38

## English

61. Select the most appropriate ANTONYM of the underlined word.  
The authority tries to subjugate the marginalised people.  
1. subordinate    2. liberate    3. enslave    4. trap
62. Choose the option that can substitute the underlined segment correctly and complete the meaning of the sentence.  
The grandmother asked Rita to close the window as she suddenly started feeling extremely cold.  
1. Freezing    2. Frosting    3. Icing    4. Cold
63. Select the most appropriate meaning of the given idiom.  
Throw caution to the wind  
1. Carefree    2. Careful  
3. Be cautious    4. Ignore the risk
64. Select the most appropriate ANTONYM of the given word.  
Hasty  
1. Cautious    2. Reckless    3. Brisk    4. Quick
65. Select the option that expresses the given sentence in simple past tense.  
A. Last year, I have travelled to Japan.  
B. Last year, I was travelling to Japan.  
C. Last year, I travelled to Japan.  
D. Last year, I had been travelling to Japan.  
1. A    2. B    3. C    4. D
66. Select the most appropriate ANTONYM of the given word.  
Celebrate  
1. Disgrace    2. Manipulate    3. Instigate    4. Tabulate
67. Select the most appropriate option to fill in the blank.  
The moon looks bright and beautiful in the cloudless night sky. Yet it is very small compared \_\_\_\_\_ Earth.  
1. with    2. than    3. to    4. in
68. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
This blue shirt you have wearing really looks expensive.  
1. has wear    2. are wearing  
3. will wearing    4. had wear
69. Select the most appropriate synonym of the given word.  
Beautiful  
1. Dull    2. Drab    3. Pretty    4. Homely
70. Select the most appropriate synonym of the given word to fill in the blank in the sentence.  
Casual  
Sita wore a \_\_\_\_\_ yet stunning dress at the birthday party of her son.  
1. temporary    2. formal    3. regular    4. uniform
71. A part of the given sentence which has been underlined may contain a spelling error. Select the option that correctly rectifies the spelling error. If there is no error, select 'No error'.  
Technology has become an indispensable element in our day-to-day activities.  
1. Endispensable    2. Indispensable  
3. Indispinsable    4. No error

72. Select the INCORRECTLY spelt word.  
1. Apparance 2. Appropriate 3. Apparatus 4. Appreciate
73. Select the most appropriate meaning of the italicised idiom in the given sentence.  
"Hold your horses !" said Mom as I reached for a cookie.  
"They are still too hot to eat."  
1. Be patient 2. Be in a rage  
3. Be docile 4. Be in a hurry
74. Select the most appropriate ANTONYM of the word given in the brackets to fill in the blank and complete the sentence.  
The water was too \_\_\_\_\_ (profound) to take a swim.  
1. shallow 2. dangerous 3. hot 4. turbid
75. Select the most appropriate synonym of the given word.  
Heyday  
1. Yesteryears 2. Dreamy 3. Prime 4. Fateful

**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.

Residents of Victorian Street in Thornton (1) \_\_\_\_\_ disturbed last night by an unusual accident. At eleven o'clock a car broke down near the end of the street and the driver left his vehicle (2) \_\_\_\_\_ while he went on with his journey by taxi. An hour later, the car's alarm went off when it was hit (3) \_\_\_\_\_ a stolen van. The engine of the van blew up, so the thief tried to drive away in the car. But he gave up when the car would not (4) \_\_\_\_\_ and (5) \_\_\_\_\_ a bicycle instead.

76. Select the most appropriate option to fill in blank number 1.  
1. is 2. were 3. are 4. was
77. Select the most appropriate option to fill in blank number 2.  
1. then 2. here 3. there 4. their
78. Select the most appropriate option to fill in blank number 3.  
1. on 2. in 3. by 4. above
79. Select the most appropriate option to fill in blank number 4.  
1. started 2. start 3. starting 4. starts
80. Select the most appropriate option to fill in blank number 5.  
1. parked 2. stole 3. bought 4. lent

**Answer Key**

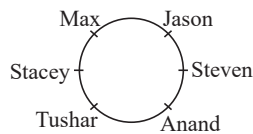
1. (2)	2. (4)	3. (1)	4. (2)	5. (3)	6. (3)	7. (1)	8. (1)	9. (2)	10. (4)
11. (3)	12. (4)	13. (4)	14. (2)	15. (1)	16. (3)	17. (2)	18. (2)	19. (3)	20. (4)
21. (3)	22. (2)	23. (1)	24. (1)	25. (1)	26. (3)	27. (1)	28. (3)	29. (1)	30. (2)
31. (4)	32. (4)	33. (4)	34. (4)	35. (2)	36. (2)	37. (4)	38. (4)	39. (4)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

**Answers with Explanations**

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

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

Hence, Jason is sitting between Max and Steven.



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

Given series: 31, 33, 36, 41, 48, ?, ?

The difference between the give numbers in the series is the sequence of Prime numbers.

$$31 + 2 = 33$$

$$33 + 3 = 36$$

$$36 + 5 = 41$$

$$41 + 7 = 48$$

$$48 + 11 = 59$$

$$59 + 13 = 72$$

Hence, 59, 72 is the correct answer.

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

Given that : FLY is coded as 43

Here, positional values of the alphabets in the given word are added.

So,

$$F(6) + L(12) + Y(25) = 43$$

$$\text{And, } H(8) + A(1) + T(2) = 29$$

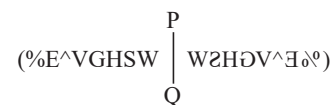
Similarly,

$$B(2) + E(5) + A(1) + C(3) + H(8) = 19$$

Hence, 19 is the correct answer.

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

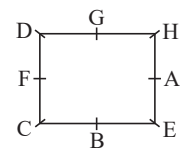
In the mirror image, left becomes right and right becomes left. Hence, the required mirror image is:



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

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

Now, if all the persons are made to sit in alphabetical order in a clockwise direction starting from A, then B would shift 1 place from the current position.



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

Given that: 'Near' is related to 'Close'.

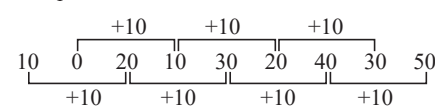
Here, near is the synonym of close.

Similarly, Distant is the synonym of Away.

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

Given series: 10, 0, 20, 10, 30, 20, 40, 30, ?

The patten followed here is:



Hence, 5 is the correct answer.

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

In the given dices, following numbers can be seen:

$$2 - 4 - 1$$

$$2 - 4 - 6$$

Hence, 6 will be opposite to 1.

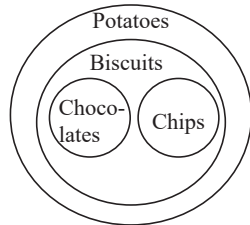
9. **Option (2) is correct.**

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



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

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



Conclusion I – All chips are potatoes – True.

Conclusion II – All potatoes are chocolates – False.

Conclusion III – Some potatoes are chips – True.

Hence, only conclusions I and III follows.

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

In the given analogy, both the words are antonyms to each other.

As, extra is an antonym of inadequate,

Similarly, appear is an antonym of disappear.

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

Given that:  $27 : 189 :: 32 : ? :: 18 : 126$

The pattern followed here is:

$$27 \times 7 = 189$$

$$18 \times 7 = 126$$

$$\text{So, } 32 \times 7 = 224$$

Hence, 224 is the correct answer.

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

The given image is embedded in option (4) as highlighted below:



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

Given series: FYBL, CVFP, ZSJT, ?, TMRB

The pattern followed here is:

F	Y	B	L
-3	-3	+4	+4
C	V	F	P
-3	-3	+4	+4
Z	S	J	T
-3	-3	+4	+4
W	P	N	X
-3	-3	+4	+4
T	M	R	B

Hence, WPNX is the correct answer.

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

The correct order of the given words is:

3. Rack	5. Radar	2. Ragging	4. Rainbow	1. Ranked
---------	----------	------------	------------	-----------

Hence, 3, 5, 2, 4, 1 is the correct answer.

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

Given series: GS, EU, AW, UY, MA, ?

The pattern followed here is:

G	S
-2	+2
E	U
-4	+2
A	W
-6	+2
U	Y
-8	+2
M	A
-10	+2
C	C

Hence, CC is the correct answer.

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

Given expression:  $8A80B16C90D21$

After putting the signs as per question, we get:

$$8 - 80 \div 16 \times 90 + 21$$

$$\Rightarrow 8 - 5 \times 90 + 21$$

$$\Rightarrow 8 - 45 + 21$$

$$\Rightarrow -421$$

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

According to question,

She will Come  $\rightarrow$  Vu de ja

Come and eat  $\rightarrow$  te Vu ma

all will eat  $\rightarrow$  ma nu ja

Hence, 'all' will be coded as 'nu'.

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

Given equation:  $192 - 16 + 18 \times 6 \div 24 = 96$

Upon checking option (3) and interchanging  $-$  and  $\div$ , we get:

$$192 \div 16 + 18 \times 6 - 24 = 96$$

$$= 12 + 18 \times 6 - 24 = 96$$

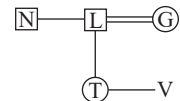
$$= 12 + 108 - 24 = 96$$

$$= 96 = 96$$

LHS = RHS.

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

Given expression:  $N \times L - T \& G + V$ .



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

Hence, N is the father's brother of V.

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

SEVA stands for Saral Eindhyan Vitaran Application. It's an app launched by the Indian government to facilitate transparency and accountability in coal dispatch to power plants.

Piyush Goyal served as the Union Minister of State (IC) for Power, Coal, New & Renewable Energy and Mines when SEVA was launched in 2018. He officially inaugurated the app, making him the responsible minister.

22. **Option (2) is Correct.**

The Rig Veda is considered the oldest among the four Vedas. The Rig Veda is the oldest and most ancient collection of hymns and sacred texts in the Vedic literature, containing verses that are believed to have been composed over 3,000 years ago.

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

Minimum Needs Programme (MNP) Launched in 1974, the first year of the Fifth Five Year Plan, it aimed to provide necessities like access to drinking water, education, health, and sanitation to the underprivileged population.

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

SME stands for small and medium-sized enterprises. SMEs refer to businesses that are characterized by their smaller size

- in terms of employees, revenue, and assets compared to larger corporations.
25. **Option (1) is correct.**  
R.E. Grant Govan was elected as its first president at the inaugural meeting. He held the position from 1928 to 1933.
26. **Option (3) is correct.**  
As of November 2022, the Governor of Andhra Pradesh, India was Biswabhusan Harichandan.
27. **Option (1) is correct.**  
The maximum inflation in India, recorded at 25.2 per cent, occurred in the fiscal year 1974-75. This high inflation rate was primarily attributed to the failure of kharif crops in the previous year and an increase in crude oil prices. The scarcity of food due to crop failure led to a surge in prices, contributing to overall inflation.
28. **Option (3) is correct.**  
Raut Nacha is a traditional folk dance of the Yadav community, mainly performed during Diwali in Chhattisgarh.
29. **Option (1) is correct.**  
To enroll in the Atal Pension Yojana (APY), individuals must be between 18 and 40 years old. This pension scheme, supported by the government, aims to offer a steady pension to those in the unorganized sector. The specified age range ensures that subscribers commence their contributions at a comparatively younger age.
30. **Option (2) is correct.**  
The hot, melted rock that comes out of a volcano and flows on the Earth's surface is called lava. Lava can look different – sometimes smooth like ropes (pahoehoe) or rough and broken.
31. **Option (4) is correct.**  
The 42<sup>nd</sup> Amendment Act of 1976, also known as the Mini-Constitution, introduced ten fundamental duties for Indian citizens. These duties are listed in Article 51A of the Constitution.
32. **Option (4) is correct.**  
In 2015 she was awarded the MN Subramaniam Endowment Award by the Music Academy Madras. Alarmel Valli is a leading Indian classical dancer and choreographer and the foremost exponent of the Pandanallur style in the Indian classical dance form, Bharatanatyam. Valli has been honoured with zahlreiche awards and recognitions for her contributions to Bharatanatyam, including the Padma Shri (1991), the Padma Bhushan (2004), and the Chevalier of Arts and Lettres (2004).
33. **Option (4) is correct.**  
The celebrations for Paryushan Parv are held for 10 days by the Digambara sect of Jains.
34. **Option (4) is correct.**  
Global burden of diseases (GBD), is a comprehensive study conducted by the Institute for Health Metrics and Evaluation (IHME) that quantifies the health loss from hundreds of diseases, injuries, and risk factors across various periods, locations, and population groups. It uses disability-adjusted life years (DALYs) as a metric to estimate both premature mortality and years lived with disability due to health issues.
35. **Option (2) is Correct.**  
There are 25 High courts in India as of 2022. This number has remained consistent since the establishment of the Andhra Pradesh High Court in 1919.
36. **Option (2) is correct.**  
The Harijan Sevak Sangh was founded in 1932 as a result of the Poona Pact. The Poona Pact was an agreement reached between Dr B.R. Ambedkar and Mahatma Gandhi in 1932, which aimed at ensuring adequate political representation for the Dalits (Harijans) in India. The Harijan Sevak Sangh was subsequently established to work towards the welfare and upliftment of the Harijan community.
37. **Option (4) is correct.**  
Avogadro's number is a fundamental constant in chemistry, denoted by  $N_A$ , which refers to the number of units of atoms, molecules, or ions in one mole of a substance. The Avogadro's number is  $6.022 \times 10^{23}$ . It is named after the physicist and chemist Amedeo Avogadro.
38. **Option (4) is correct.**  
Neeraj Chopra carried the flag during the opening ceremony of the Asian Games 2018. Rani Rampal, captain of the Indian women's hockey team who led them to a silver medal, was chosen as the flag bearer for the closing ceremony, which is often reserved for athletes who performed exceptionally well during the games.
39. **Option (4) is correct.**  
The union territory with the highest literacy rate in 2011 was Lakshadweep. According to the 2011 Census of India, Lakshadweep recorded the highest literacy rate among all states and union territories with a remarkable 92.28%.
40. **Option (2) is correct.**  
Plastids in a leaf cell are mainly located within the cytoplasm. Plastids are specific cellular structures with diverse functions, such as playing a role in photosynthesis. They exist inside the cytoplasm of plant cells.
41. **Option (2) is correct.**  
According to the question,  
Using successive discount,  
Total offered discount =  $30 + 10 - \frac{30 \times 10}{100} = 37\%$
42. **Option (3) is correct.**  
Let the cost prices of pen and notebook are  $x$  and  $y$  respectively.  
According to the question,  
 $2x + 3y = 220$  ... (1)  
 $2x + 4y = 250$  ... (2)  
From eq. (1) and (2),  
 $x = 65$  and  $y = 30$   
Required ratio =  $65 : 30 = 13 : 6$
43. **Option (3) is correct.**  
LCM of 3, 4, 5 and 6 = 60  
When we divide 1845 by 60, then there is a remainder of 45.  
So, 15 is required to add in the given number to make it divisible by all the given numbers.
44. **Option (4) is correct.**  
Let the speed of man =  $x$   
And speed of stream =  $y$   
According to the question,  
Downstream speed,  $x + y = \frac{66}{6} = 11$  km/h ... (1)  
Upstream speed,  $x - y = \frac{72}{8} = 9$  km/h ... (2)  
By eq. (1) and (2),  
 $x = 10$  km/h and  $y = 1$  km/h  
So, speed of stream = 1 km/h

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

Given that,

Sonal, Kriti, and Priti together can complete a piece of work in = 6 days

Kriti can do the same work separately in = 30 days

Priti can do the same work separately in = 18 days

Let, total work = LCM(6, 30, 18) = 90 unit

So, efficiency of Sonal, Kriti, and Priti together =  $\frac{90}{6} = 15$  unit/day

efficiency of Kriti together =  $\frac{90}{30} = 3$  unit/day

efficiency of Priti together =  $\frac{90}{6} = 5$  unit/day

So, efficiency of Sonal =  $15 - (3 + 5) = 7$

Sonal do the same work =  $\frac{90}{7}$  days

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

According to the question,

Total expenditure of first four month =  $4 \times 6250 = ₹ 25000$

Total expenditure of next four month =  $4 \times 6500 = ₹ 26000$

So, total expenditure of last four month =  $4x$

Total yearly salary of Vipin =  $9600 \times 12 = 115200$

And his total yearly savings = ₹ 15000

So,  $25000 + 26000 + 4x + 15000 = 115200$

$\Rightarrow x = ₹ 12300$

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

Given that the marked price of book = ₹ 800

According to the question,

Selling price of book =  $800 \times \frac{85}{100} \times \frac{85}{100} = ₹ 554$

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

Given that the radius of sphere = 3 unit

So, volume of the sphere =  $\frac{4}{3} \pi r^3 = \frac{4}{3} \times \frac{22}{7} \times 3 \times 3 \times 3 = \frac{792}{7}$

Let the radius of hemisphere =  $r$  unit

According to the question,

Volume of hemisphere =  $32 \times$  volume of sphere

$\Rightarrow \frac{2}{3} \pi r^3 = 32 \times \frac{792}{7}$

$\Rightarrow r = 12$

So, diameter of hemisphere =  $12 \times 2 = 24$  units

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

Given that,

Annual instalments of ₹ 125000 each.

Interest rate = 6% per annum

According to the question,

Principal amount for first year =  $\frac{125000}{1 + \frac{6}{100}} = ₹ 117924.5$

Principal amount for first year =  $\frac{125000}{\left(1 + \frac{6}{100}\right)^2} = ₹ 111249.5$

Total principal =  $117924.5 + 111249.5 = ₹ 229174$

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

Let the efficiency of a man and a woman are M and W respectively.

So, total work =  $8 \times M \times 10 = 10 \times W \times 7$

$\Rightarrow \frac{M}{W} = \frac{7}{8}$

So, total work =  $8 \times 7 \times 10 = 560$  units

Efficiency of 10M =  $10 \times 7 = 70$  unit/day

Efficiency of 10W =  $10 \times 8 = 80$  unit/day

So, workdone in consecutive days =  $70 + 80 + 70 + 80 + 70 + 80 + 70 + 40$

So, time required = 7.5 days

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

Let fruit vendor purchases three different priced oranges of 4kg, 5kg and 6kg respectively.

So, total cost price =  $4 \times 150 + 5 \times 90 + 6 \times 75 = ₹ 1500$

So, selling price =  $1500 \times \frac{140}{100} = ₹ 2100$

Hence, selling price per kg =  $\frac{2100}{4 + 5 + 6} = ₹ 140$

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

Given that,

Oil price increased by 25% and his expenditure increased by 10%.

Let the quantity of oil decreased by  $x\%$ .

Using successive percentage change in expenditure,

$$10 = 25 + x + \frac{25x}{100}$$

$$\Rightarrow 5x = -110$$

$$\Rightarrow x = -22\%$$

So, the quantity of oil decreased = 22%

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

Given that,

The lengths of opposite parallel sides are 12 cm and 8 cm respectively.

The shortest distance between them = 16 cm

Using, area of trapezium =  $\frac{1}{2}(12 + 8) \times 16 = 160 \text{ cm}^2$

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

Let total number of votes casted =  $x$

According to the question,

$$\Rightarrow \frac{40}{100} \times x - \frac{30}{100} \times x = 24000$$

$$\Rightarrow x = 240000$$

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

Given that, shopkeeper bought 240 chocolates at ₹ 9 per dozen.

So, cost price of each chocolate =  $\frac{9}{12} = ₹ 0.75$

Selling price = ₹ 1

So, profit percentage =  $\frac{1 - 0.75}{0.75} \times 100 = 33\frac{1}{3}\%$

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

Total number of students = 3000

According to the question,

Number of boys in school =  $3000 \times \frac{4}{5} = 2400$

Number of girls in school =  $3000 \times \frac{1}{5} = 600$

So, mean proportion =  $\sqrt{2400 \times 600} = 1200$

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

The smallest possible number which will be divisible by 5, 6 and 7 = LCM (5, 6, 7) = 210

So, required number =  $210 + 4 = 214$

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

According to the question,

$$\text{Distance} = \text{speed} \times \text{time} = 510 \times 3 = 1530 \text{ km}$$

$$\text{Again, required speed to cover same distance in } 10\frac{1}{5} \text{ hr} = \frac{1530}{\frac{51}{5}}$$

$$= 150 \text{ km/h}$$

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

Given that the average of 8 numbers = 24

$$\text{So, sum of 8 numbers} = 24 \times 8 = 192$$

$$\text{And sum of 7 numbers} = 22 \times 7 = 154$$

$$\text{So, excluded number} = 192 - 154 = 38$$

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

Given that, principal amount = ₹ 8300

Rate of interest = 10% per annum

Time = 2 years

$$\text{Using, difference between CI and SI in two years} = P \left( \frac{r}{100} \right)^2$$

$$= 8300 \times \frac{10}{100} \times \frac{10}{100} = ₹ 83$$

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

Subjugate means to bring under domination or control, especially by conquest. Example: "The invaders had soon subjugated most of the population." The antonym of subjugate is to liberate.

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

For feeling extremely cold, we can use freezing. Frosting is a sweet food used to cover or fill cakes, made from sugar and water or sugar and butter.

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

"Throw Caution to the Wind" is an idiomatic expression that signifies taking risks without any concern for potential consequences. It can refer to acting recklessly, boldly, or impulsively, disregarding any cautionary advice or rational thinking. So, the suitable meaning is ignoring the risk.

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

Hasty means done with excessive speed or urgency; hurried. Example: "Don't be too hasty in criticizing a colleague." The antonym of hasty is cautious. Reckless is a close meaning word to hasty.

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

The structure of a sentence in the past tense is: subject + verb in the past form. The sentence in past form will be: Last year, I travelled to Japan. (A) is in present perfect tense; (B) is past continuous tense; (C) is past perfect continuous tense.

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

Celebrate means to acknowledge (a significant or happy day or event) with a social gathering or enjoyable activity. Example: "They were celebrating their wedding anniversary at a swanky restaurant." The antonym of celebrate is disgrace. Manipulate means to handle or control (a tool, mechanism, information, etc.) in a skilful manner, alter. Instigate means to incite someone to do something, especially something bad. Tabulate means to arrange (data) in tabular form.

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

The apt preposition after the word 'compare' is 'to'.

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

The sentence is grammatically incorrect. The verbs 'has, have, and had' are followed by the third form of the verb. But the sentence is in the present tense. So, the most suitable verb is "are wearing".

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

The apt synonym of 'beautiful' is pretty. Dull means not interesting or exciting in any way. Drab means lacking brightness or interest; drearily dull. Homely means plain or ordinary, but pleasant.

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

The blank is followed by the conjunction 'yet', which expresses contradiction, so the word preceding it should be in contrast with the word succeeding it. The word after yet is 'stunning' so, the word preceding it will be 'regular'.

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

The underlined word is incorrect in spelling. It should be 'indispensable,' which means absolutely necessary. Example: "He made himself indispensable to the parish priest."

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

The incorrectly spelled word is 'appearanse'. It should be appearance, which means the way that someone or something looks. Example: "She checked her appearance in the mirror."

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

The meaning of the idiom 'hold your horses' means to stop and think carefully before making a decision or expressing an opinion. Example: Just hold your horses, Bill! Let's think about this for a moment. So the correct answer is 'be patient'.

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

'Profound' means having intellectual depth and insight. Example: The experience had a profound influence on her. The antonym of 'profound' is 'shallow'. Turbid means opaque or unclear.

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

Heyday means the most successful or popular period for someone or something. Example: In their heyday, they sold as many records as all the other groups in the country put together. The synonym for heyday is prime.

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

Since the sentence mentions last night. The verb should be in the past tense. Also, since the subject is plural, the verb should also be plural. Hence, the best word in the blank is 'were'.

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

The sentence says that the car was broken down, and the driver left the car where it was broken down. To refer to that place, the apt word is 'there'.

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

The blank requires a preposition that represents the agent. The best preposition in this context is 'by'.

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

The blank is preceded by a modal 'would', and modals are always followed by the base form of verbs. Thus, the best word to fill in the sentence is 'start'.

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

The sentence makes it clear that the thief tried to steal the car, and when he was unable to do that, he stole a bicycle. So, the best word in this context is 'stole'.