## STAFF SELECTION COMMISSION

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

# SOLVED PAPER

## (28th February 2024: 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

- After arranging the given words according to dictionary order, 1. which word will come at 'Fourth' position?
  - 1. Slur 2. Suit 3. Slug 5. Slump 4. Slung
  - 1. Slung 2. Slug 3. Slur 4. Suit
- 2. Five persons A, B, C, D and E are sitting around a circular table facing towards the centre (not necessarily in the same order). C is not an immediate neighbour of D and A, B is sitting second to the left of E. A is sitting second to the right of E. Who is siting on the immediate right of D?

3. By Interchanging the given two numbers (not digits) which of the following equation will be not correct? 9 and 2

1.  $9 \div 3 + 2 - 4 = 6$ **3.** 2 + 9 ×

$$3-4=11$$
 **4.**  $9+4\times 2-6$ 

**2.** 9 - 2 + 7 = 0

= 32

T

F

G

4. Select the dice which can be formed on folding the given sheet. E



In the following question below are given some statements 5. followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion(s) logically follows the given statements.

Statements:

- I. Some T are S.
- II. No R is S.
- **Conclusions:**
- I. No S is R.
- II. No R Is T.
- III. No S is T.
- 1. Both conclusions II and III follows
- 2. Neither conclusion follows

#### 3. All conclusions follow 4. Only conclusion I follows

From the given option figures, select the one in 6. which the question figure is hidden/embedded.



- 7. In the following question, select the missing number from the given series.
  - 863, 860, 869, 842, 923, ?
- 3. 570 1.680 2. 550 4. 580
- If 30 A 10 B 30 C 10 = 37 and 45 A 15 B 18 C 9 = 58, then 64 8. A 34 B 50 C 5 = ?

9. In the following question, select the related letters from the given alternatives.

10. In the following question, select the related letter pair from the given alternatives.

2. NUP : BBO

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

$$\begin{array}{c|c} & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & ? \\ \hline 1. & \downarrow \uparrow & 2. & \downarrow \downarrow & 3. & \downarrow \uparrow \downarrow & 4. & \downarrow \downarrow \uparrow \\ \hline \end{array}$$

12. In a certain code language, 'DRAGON' is coded as 'CQZEML' What is the code for 'WHEELS' in that code language? 1. VGDDJQ 2. VGDCJQ

13. In a certain code language, 'WHOM' is coded as 'SCKH'. What is the code for 'BAKE' in that code language?

1. XVHA 2. XVGZ 3. XVGA 4. XVHZ

14. Eight athletes Sunil, Abhishek, Mohit, Cheenu, Rahul, Tanu, Koyal and Ankit are sitting around a circular table facing opposite to the centre (not necessarily in the same order).

Koyal is third to the left of Rahul. Tanu is third to the right of Cheenu. Mohit is second to the right of Sunil. Abhishek is second to the left of Cheenu. Tanu is second to the left of Sunil. Who is sitting second to the right of Ankit?

- 1. Sunil 2. Cheenu 3. Mohit 4. Rahul 15. 'E  $\times$  F' means 'E is the wife of F' E + F' means E is the brother of F' 'E  $\div$  F' means 'E is the husband of F' 'E - F' means 'E is the son of F' How is P related to R in the expression ' $P \times Q + I - R \div S$ ' 1. Sister 2. Son's wife 3. Wife's sister 4. Wife 16. A paper is folded and cut as shown below. How will it appear when unfolded? 1 2. 3. 4  $\square$
- 17. Which of the following letter clusters will replace the question mark (?) in the given series?

4. S

4.144

U, X, A, D, G, J, M, ?

- 1. Q 2. P 3. R
- 18. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it? cddfcd c df ddfcd
- 1. dfcd 2. ddcd 3. ddfc 4. dfdc 19. In the following question, select the missing number from the given series.
  - 5, 37, 70, 104, ?, 175
  - 1.139 **2.** 140 3. 148
- 20. In the following question, select the figure which can be placed at the sign of question mark (?) from the given alternatives.



General Knowledge & General Awareness

- 21. Who has been appointed as the new Vice Chief of the Indian Air Force on January 30, 2023? 1. Harjit Singh Arora 2. Sandeep Singh
  - 3. Vivek Ram Chaudhari 4. Amarpreet Singh
- 22. The Government of India recently renamed the Rajiv Gandhi Khel Ratna Award as the Khel Ratna Award 1. Major Dhyan Chand 2. Mary Kom
- 3. Indira Gandhi 4. Gavaskar **23.** Ashoka's dhamma worship of a god, or performance of
- a sacrifice. 1. supports certain form 2. is a part of
- 3. primarily involves 4. did not involve
- 24. Which of the following was the 14th Census of India? 1. 1991 2. 2011 **3.** 2021 4.2001
- 25. What dancing style was M.K. Saroja, who passed away in June 2022, well known for? 1. Kuchipudi 2. Kathak 3. Sattriya
  - 4. Bharatanatyam
- 26. What is the sex ratio of early childhood (0-6 years) according to the 2011 census of India (Females per Thousand Males)? 1.928 2. 918 3. 938 4.908

27. 'Tippani Nritya' is associated with which of the following states? 1. Andhra Pradesh 2. Gujarat 3. Karnataka 4. Uttar Pradesh **28.** Elements in the Modern Periodic Table are arranged in vertical columns called groups and horizontal rows called periods 1. 18. 9 2. 18. 7 3. 16.9 4. 16. 7 29. ATM booths come under which sector of the economic activity? 1. Secondary sector 2. Tertiary Sector 3. Quaternary sector 4. Primary sector The Green Revolution started in the year 1965 and the 30. five-year plan of India was between 1961-66. 1. third 2. fourth 3. first 4. second 31. The Board of Control of Cricket (BCCI) has appointed as the chairman of the Senior Men's Cricket Selection Committee in 2023 1. Sachin Tendulkar 2. Kapil Dev 3. M.S. Dhoni 4. Ajit Agarkar 32. Under the Industrial Policy Resolution 1936, industries in India have been classified info how many categories? 1. Three 2. Five 3. Two 4. Four 33. Which of the following statements is correct regarding the Green Revolution? I. Green Revolution made India self-reliant in foodgrain production. II. Post Green Revolution, there is decrease in the use of chemical fertilizers. 1. Only II 2. Neither I nor II 3. Both I and II 4. Only I According to the Indian Constitution, how many organs are 34. there in the government of India? 1. Two 2. Five 3. Three 4. Four 35. Decathlon which is organised for men includes events. 2. 15 4.12 1.10 3.8 36. Independence Day is celebrated at the national level at in Delhi. 1. Red Fort 2. India Gate 3. Taj Mahal 4. Gateway of India 37. Which country won the FIFA U-17 Women's World Cup 2022? 1. Spain 2. Colombia 3. USA 4. Japan 38. Who among the following social reformers founded the Self Respect Movement? 1. Ghasidas 2. Jyotirao Phule 3. Narayana Guru 4. Perivar **39.** Which instrument is played by the famous music personality Pt. Shiv Kumar Sharma? 1. Guitar 2. Santoor 4. Piano 3. Sitar 40. Which state government launched the Mukhyamantri Nishulk Annapurna Food Packet Scheme on Independence Day in 2023? 1. Rajasthan 2. Maharashtra 3. Uttar Pradesh 4. Kerala

## **Elementary Mathematics**

- **41.** What is the value of  $13[216 \div 3 \text{ of } \{48 \div 24 \times (42 38)\}]$ ? 1.130 **2.** 143 3. 117 4.91 42. Two numbers are in the ratio of 6 : 5. If their sum is 22, then
- what is the sum of the squares of the two numbers? **2.** 256 1.234 3. 244 4.196

- 43. I can complete a work in 20 days and U can complete the same work in 10 days. If both of them work together, then in 4 days what percent work of the total work will be completed? **1.** 80 percent **2.** 75 percent **3.** 65 percent **4.** 60 percent
- 44. An item costing ₹ 500 is being sold at a 17% loss. If the price is further reduced by 20%, then find the selling price.

1. $\frac{30}{61}$	2. $\frac{31}{60}$	3. $\frac{31}{70}$	4. $\frac{31}{63}$
01	00	/0	03

46. A company's revenue increased by 10% in the first quarter and decreased by 5% in the second quarter. What is the net percentage increase or decrease in revenue over these two quarters?

decrease

1.	3.5%	increase	2.	4.5%

**3.** 3.5% decrease 4. 4.5% increase

47. If A: B: C = 2:3:5, then what is the value of (A + B): (B + A)C) : (C + A)?

1.	5:	8:	7	2.	7	: 6	:	
	_	-	_		_	-		

3.	7	:	8	:	7				4.	5	:	8	:	8
----	---	---	---	---	---	--	--	--	----	---	---	---	---	---

48. Deepak marks the price of his table 50 percent above the cost price. He gives some discount on it and earns profit of 10 percent. What is the discount percentage? 1. 26.67 percent 2 33 33 percent

•	20.07 percent	2. 55.55 percent
3.	16.67 percent	4. 20 percent

- 49. Mohan, Aman and Sohan together can complete a work in L8 days. If Mohan can work thrice as faster than Aman and Aman can work twice as faster than Sohan, then in how many days Sohan alone can complete the same work?
  - **2.** 162 days **3.** 180 days **4.** 195 days 1. 172 days
- 50. A ring is sold at three successive discounts of 10%. 20% and 30%. If the marked price of the ring is ₹ 20,000, find its net selling price.

1. ₹ 10000 2. ₹ 9000 3. ₹ 10020 4. ₹ 10080

- 51. A train of length 442 metres crosses an electric pole in 13 seconds and crosses another train of the same length travelling in opposite direction in 17 seconds. What is the speed of the second train?
  - 1. 24 m/s **3.** 12 m/s **2.** 18 m/s **4.** 32 m/s
- 52. A person borrows some money for 5 years at a certain rate of simple interest. If the ratio of principal and total interest is 5:1, then what is the annual rate of interest? **3.** 4 % 1.1.7% **2.** 2.2% 4.3.5%
- 53. What is the total surface area of a cone whose radius is 24 cm and height is 10 cm? 2. 3924.61 cm<sup>2</sup> 1. 3771.43 cm<sup>2</sup>
  - 4. 4261.23 cm<sup>2</sup> 3. 3249.76 cm<sup>2</sup>
- 54. What is the sum of all prime numbers between 30 and 50? 1.202 2. 199 3. 173 4. 187
- 55. What is the smallest number that is a multiple of 5, 8 and 15? 1.40 2. 230 **3.** 120 4.60
- 56. A sells a bottle to B at the profit of 30 percent and B sells it to C at a loss of 20 percent. If C pays ₹ 3744 for the bottle, then what is the cost price of bottle for A?
- 1. ₹ 3200 2. ₹ 3600 **3.** ₹ 3000 4. ₹ 3500 57. The difference between compound interest (compounding annually) and simple interest on a sum of ₹ 80,000 for 2 years is ₹ 288. Find the rate of interest per annum.

1.8% 2. 5.5% 3. 6% 4.4%

**58.** Average of 8 numbers is 47. The average of first three numbers is 53 and the average of next two numbers is 55. If the sixth number is 7 and 10 less than seventh and eighth number, respectively, then what is the value of eighth number?

1. 52	<b>2.</b> 42	<b>3.</b> 40	<b>4.</b> 47

- **59.** The average age of 17 students of a class is 20 years. If a new student of age 38 years joins the class, then what will be the average age of these 18 students?
  - 1. 24 years **2.** 21 years **3.** 23 years **4.** 26 years
- 60. A student scores 60% in an exam and gets 24 marks less than another student who scored 80%. What is the maximum marks in the exam?
  - 1.150 2. 130 3. 140 4.120

## English

- 61. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'. Neither Prerna nor Vishaka understand the meaning of friendship. 1. Neither Prerna nor 2. meaning of friendship. 3. Vishaka understand the 4. No error 62. Select the most appropriate word to fill in the blank. The Liberal Party is cracking under the pressure of these . 1. corrosion 2. allegation 3. allegations 4. allegedly 63. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'. I'm unable to contact my friend, who deceived me when I was more weaker. 1. I'm unable to contact my friend 2. No error 3. I was more weaker. 4. who deceived me when 64. Fill in the blank with the most appropriate option. your clothes, it is high time you clean up the mess in your room. 1. Fold 2. Faux **3.** Foaled 4. Fouled 65. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct. The software revolution is at its peaks in India. 1. its peaked 2. it's peaking 4. its peak 3. No improvement Improve the underlined part of the sentence. Choose 'No 66. improvement' as an answer if the sentence is grammatically correct. The house is a pear tree in the backyard. 1. have a pears **2.** has a pears 3. No improvement 4. has a pear 67. Choose the option which is antonym of (opposite of) the word "construe" in the sentence given below: His silence was misunderstood by many as a lack of interest, when in reality, he was deeply engrossed in thought. 1. misunderstood 2. interest 3. engrossed 4. silence 68. Find the part of the given sentence that has an error in it. Studies suggest that well-designed e-books can support early literacy in kids. 1. No error 2. Studies suggest that well-designed
  - 3. literacy in kids.
  - **4.** e-books can support early
  - 69. Select the sentence with no spelling errors.
    - 1. Marine ecosystems were comparatively more resistant to extreme weather events.
    - 2. Marine ecosysteams were comparatively more resistant to extreme weather events.

- **3.** Marine ecosystems were comparitively more resistant to extreme weather events.
- **4.** Marine ecosystems were comparatively more resistaent to extreme weather events.
- **70.** Select the incorrectly spelt word from the given sentence. He made several excrsions in the tribal habitats there.

1. tribal2. habitats3. excrsions4. several

•	excrs	4.	severa		

 Select the most appropriate meaning of the given idiom Drastic times call for drastic measures

- 1. Something that ends at the last minute or lasts few seconds 2. When you are extremely desperate, you need to take
- extremely desperate actions
- 3. Do not pull all your resources in one possibility
- 4. Don't rely on it until you sure of it
- 72. Choose the most appropriate synonym of the underlined word. My coworkers' loud, endless conversations <u>irritated</u> me.
  - 1. Obliged 2. Pacified
  - 3. Appeased 4. Displeased
- **73.** Choose the idiom/phrase that can substitute the highlighted group of words meaningfully.
  - The party was great and we **thoroughly enjoyed**.
  - 1. Beat around the bush 2. In the dark
  - **3.** Had a ball **4.** Cut corners
- 74. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

He sand the wooden with coarse sandpaper.

- **1.** sand the wood **2.** No improvement
- **3.** had sand the wood **4.** sanded the wood
- **75.** Select the most appropriate antonym of the given word. Facade

1. Hidden 2. Truth 3. Opening 4. Closure Comprehension:

In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The initial two Russian PWR types at the Kudankulam site (1)\_\_\_\_\_, apart from India's three-stage plan (2)\_\_\_\_\_ nuclear power and were simply to increase generating capacity (3)\_\_\_\_\_ rapidly. Now there are (4)\_\_\_\_\_, for eight 1000 MWe units at that site, and in January 2007, a memorandum of understanding was (5)\_\_\_\_\_ for Russia.

- **76.** Select the most appropriate option for blank (1)
- 1. was2. were3. in4. are77. Select the most appropriate option for blank (2)
- 1. from 2. to 3. for 4. with 78. Select the most appropriate option for blank (3)
- nore 2. most 3. enough 4. so
   Select the most appropriate option for blank (4)
- Select the most appropriate option for blank (4)
   plans
   ideas
   amends
   structures
   Select the most appropriate option for blank (5)

 1. placed
 2. marked
 3. draft
 4. signed

## Answer Key

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

## **Answers with Explanations**



 Option (1) is correct. As per the given sheet, following opposite pairs can be formed: J — G F — H

г—1 Е—I

Hence, only option (1) can be formed.

5. Option (4) is correct.

According to the statements, following Venn diagram can be made: **Conclusion-I)** - No S is R - True **Conclusion-II)** - No R is T - False **Conclusion-II)** - No S is T - False Hence, only conclusion I follows.



S

 Option (2) is correct. The given figure is embedded in option (2) as highlighted below:



## 7. Option (1) is correct.

Given series: 863, 860, 869, 842, 23, ? The patten followed here is:  $863 - (3)^1 = 860$  $860 + (3)^2 = 869$   $869 - (3)^3 = 842$  $842 + (3)^4 = 923$  $923 + (3)^5 = 680$ Hence, 680 is the correct answer.

## 8. Option (3) is correct.

From the given equations we can say that A denotes addition, B denotes subtraction and C denotes division. So, 30 A 10 B C 10 = 37 $\Rightarrow 30 + 10 - 30 \div 10 = 37$  $\Rightarrow 40 - 3 = 37$  $\Rightarrow 37 = 37$ 

And, 45 A 15 B 18 C 9 = 58  $\Rightarrow 45 + 15 - 18 \div 9 = 58$   $\Rightarrow 60 - 2 = 58$   $\Rightarrow 58 = 58$ Similarly,  $\Rightarrow 64 A 34 B 50 C 5 = ?$   $\Rightarrow 64 + 34 - 50 \div 5$  $\Rightarrow 98 - 10 = 88$ 

9. Option (4) is correct.

Given that : GE : HH :: BA : ? The pattern followed here is:

$$\begin{array}{c|c} G & E \\ +1 & +3 \\ H & H \\ \text{urly,} \end{array}$$

Similarly,

$$\begin{vmatrix} B & A \\ +1 & +3 \end{vmatrix}$$

Hence, CD is the correct answer.

**10.** Option (3) is correct. Given that : QRN : UVR The pattern followed here is;

 $\begin{array}{c|c} Q & R & N \\ +4 & +4 & +4 \\ U & V & R \end{array}$ 

Similarly, Upon checking option (3), we get:

$$\begin{array}{c|c} S & W \\ +4 & +4 \\ W & A \end{array}$$

Hence, WAP is the correct answer.

- 11. Option (2) is correct. According to the pattern followed and symmetry, the required answer figure is:
- **12. Option (2) is correct.** Given that: DRAGON is coded as CQZEML The pattern followed here is:

Similarly,

$$\begin{array}{c|cccc} W & H & E & E & L & S \\ -1 & -1 & -1 & -2 & -2 & -2 \\ V & G & D & C & J & Q \end{array}$$

Hence, VGDCJQ is the correct answer.

## 13. Option (2) is correct.

Given that : WHOM is coded as SCKH The pattern followed here is:

 $\begin{array}{c|c}
-4 & -5 & -4 & -5 \\
S & C & K & H
\end{array}$ Similarly,

$$\begin{array}{c|cccc} B & A & K & E \\ -4 & -5 & -4 & -5 \\ X & V & G & Z \end{array}$$

Sunil

Koyal

Q

Abhishek

Mohit

Cheenu

14. Option (4) is correct. According to the question, Rahul following sitting arrangement can be made: Hence, Rahul is sitting second to the right of Ankit.

15. Option (2) is correct.

According to the question, following family tree can be made: Here, circle is used for ( females and rectangle is used for males. Hence, P is son's wife of R.

16. Option (3) is correct.

After unfolding the paper, it will appear as follows:-



- 17. Option (2) is correct. Given series: U, X, A, D, G, J, M, ? The pattern followed here is:
  - U + 3 = X
  - X + 3 = A
  - A + 3 = D
  - D + 3 = G
  - G + 3 = J
  - J + 3 = M

M + 3 = P

Hence, P is the correct answer.

## 18. Option (4) is correct.

Given that:  $cddfcd \_ c_df \_ ddfcd$ Upon checking option (4) and sequentially place the letters, we get:  $cdd \underline{fcdd} \underline{fcdd} \underline{fcdd} fcd$ Hence, it forms a logical series.

## 19. Option (1) is correct.

Given series: 5, 37, 70, 104, ?, 175 The pattern followed here is: 5 + 32 = 3737 + 33 = 7070 + 33 = 104104 + 35 = 139

139 + 36 = 175

Hence, 139 is the correct answer.

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

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

## 21. Option (4) is correct.

Air Marshal Amar Preet Singh was appointed as the new Vice Chief of the Indian Air Force, on January 30, 2023. He succeeded Air Marshal Sandeep Singh, who retired from service on January 31, 2023.

## 22. Option (1) is correct.

The Government of India renamed the Rajiv Gandhi Khel Ratna Award to the Major Dhyan Chand Khel Ratna Award. This renaming honour the legendary Indian hockey player Major Dhyan Chand, in recognition of his outstanding contributions to Indian sports.

## 23. Option (4) is correct.

Ashoka's Dhamma was based on the teachings of the Buddha, which emphasized non-violence, morality, and following the Eightfold Path. There is no emphasis on worshipping a god or performing sacrifices in Buddhist teachings.

## 24. Option (4) is correct.

The 2001 census of India was the 14<sup>th</sup> in a series of censuses held in India every decade since 1871. The initial complete census of India post-independence took place in 1951. Subsequently, censuses have occurred every decade thereafter, maintaining a ten-year interval between each enumeration.

### 25. Option (4) is correct.

M.K. Saroja was a renowned exponent and teacher of Bharatanatyam, a classical Indian dance form. This classical dance form originated in the temples of Tamil Nadu and is characterized by intricate footwork, expressive gestures, and graceful movements.

## 26. Option (2) is correct.

The sex ratio of early childhood (0-6 years) in India according to the 2011 census was 918 females per 1000 males. This indicates a slight decline from the 2001 census which showed 927 females per 1000 males.

## 27. Option (2) is correct.

Tippani Nritya, also known as Matla Dance, is a folk dance from Gujarat's Chorwad district, originating from the Veraval and Chorwad regions of Saurashtra, featuring women dancing in a circle and clapping rhythmically.

## 28. Option (2) is correct.

In the Modern Periodic Table, elements are organized into 18 vertical columns known as groups and 7 horizontal rows referred to as periods. Each group comprises elements sharing similar chemical characteristics, while each period signifies the incremental addition of electrons to the outer energy levels of the atoms.

## 29. Option (2) is correct.

ATM booths belong to the Tertiary Sector of economic activity, also known as the service sector. This sector involves providing services rather than producing goods. ATM booths offer financial services such as cash withdrawals, balance inquiries, fund transfers, and bill payments, making them part of the tertiary sector.

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

The Green Revolution in India is often associated with its inception in the mid-1960s, aligning with the Third Five-Year Plan (1961-1966). This plan focused on agricultural development and aimed to enhance food production, setting the stage for subsequent Green Revolution endeavours.

## 31. Option (4) is correct.

Ajit Agarkar was appointed as the chairman of the Senior Men's Cricket Selection Committee by the Board of Control for Cricket in India (BCCI) in 2023.



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

Under the Industrial Policy Resolution 1956, industries in India were classified into three categories:

Schedule A: Industries exclusively reserved for the public sector.

Schedule B: Industries in which the public sector had a significant role, but the private sector was also allowed to operate.

Schedule C: Industries where both the public and private sectors could operate freely without any reservation.

## **33.** Option (4) is correct.

The Green Revolution, initiated in the 1960s, significantly increased food grain production in India, making the country self-reliant in food production and reducing dependence on food imports.

Post-Green Revolution, there has been an increase rather than a decrease in the use of chemical fertilizers and pesticides to maintain high crop yields.

## 34. **Option (3) is correct.**

The Constitution outlines three state organs: legislative, executive, and judiciary. The legislative body comprises Parliament and State Legislatures, the executive body includes the Council of Ministers and ministry officials, and the judiciary body comprises the Supreme Court, High Courts, and subordinate courts in different states.

#### 35. Option (1) is correct.

Decathlon is a multi-event competition in athletics where athletes compete in ten different sports disciplines. The ten events in the decathlon for men are: 100 metres sprint, Long jump, Shot put, High jump, 400 metres, 110 metres hurdles, Discus throw, Pole vault, Javelin throw and 1500 metres run.

## 36. Option (1) is correct.

The Red Fort, also known as Lal Qila, in Delhi, serves as the customary location for India's national Independence Day festivities. Annually, on the 15<sup>th</sup> of August, the Prime Minister of India raises the national flag and delivers a speech from the Red Fort's ramparts, addressing the nation.

#### **37.** Option (1) is correct.

Spain won the FIFA U-17 Women's World Cup 2022, which was held in India. This victory marked Spain's second title in this competition, having won their first in 2018.

#### 38. Option (4) is correct.

E. V. Ramasamy Naicker, popularly known as Periyar, initiated the Self-Respect Movement in Tamil Nadu, India. This movement was dedicated to abolishing the caste system and advocating for social equality, with a special focus on marginalized castes and women.

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

Pandit Shiv Kumar Sharma was a celebrated Indian classical musician known for his mastery of the santoor, a hammered dulcimer. This stringed instrument is played by striking its strings with mallets and holds a significant place in Indian musical heritage, especially in Kashmiri music.

#### 40. Option (1) is correct.

The Mukhyamantri Nishulk Annapurna Food Packet Scheme was initiated by the Rajasthan government on Independence Day, August 15<sup>th</sup>, 2023. This scheme aims to provide free monthly food packets containing essential food items to

families registered under the National Food Security Act (NFSA) in the state.

41. Option (3) is correct. Given,  $13[216 \div 3 \text{ of } \{48 \div 24 \times (42 - 38)\}]$ ,  $= 13[216 \div 3 \text{ of } \{48 \div 24 \times 4\}]$  $= 13[216 \div 3 \text{ of } \{2 \times 4\}]$  $= 13[216 \div 3 \text{ of } 8]$  $= 13[216 \div 24]$ = 13[9]= 117 42. Option (3) is correct. Let the numbers are 6x and 5x. According to the question, 6x + 5x = 22 $\Rightarrow 11x = 22$  $\Rightarrow x = 2$ So, sum of the squares of the numbers  $= (6x)^2 + (5x)^2 = 61x^2 =$  $61 \times 4 = 244$ 43. Option (4) is correct. Given, I can complete the work in = 20 days U can complete the work in = 10 days Let the total work = LCM (20, 10) = 20 units So, efficiency of I =  $\frac{20}{20}$  = 1 unit per day Efficiency of U =  $\frac{20}{10}$  = 2 units per day So, their 4 days work =  $(1 + 2) \times 4 = 12$  units Required percentage of work =  $\frac{12}{20} \times 100 = 60\%$ 44. Option (4) is correct. Given. Cost price of article = ₹ 500 Loss percentage = 17%So, selling price =  $500 \times \frac{100 - 17}{100} = ₹ 415$ Now, new selling price after further reducing the price by 20%  $= 415 \times \frac{80}{100} = ₹ 332$ 45. Option (2) is correct. Let x = 0.51666666...Multiply both side by 100, 100x = 51.6666666...(1) Again, multiply both side by 10, 1000x = 516.66666...(2) Now, by eq. (2) - (1), 900x = 465 $\Rightarrow x = \frac{465}{900} = \frac{31}{60}$ 46. Option (4) is correct. Using, successive percentage change =  $x + y + \frac{xy}{100}$ According to the question, percentage change in revenue =  $10-5+\frac{\{(10)(-5)\}}{100}$ = 5 - 0.5 = 4.5%So, there is increase of 4.5% in revenue. 47. Option (1) is correct.

Let A, B and C are 2x, 3x and 5x respectively.

Then, (A + B) : (B + C) : (C + A) = (2x + 3x) : (3x + 5x) : (2x+5x) = 5x : 8x : 7x = 5 : 8 : 7

## 48. Option (1) is correct.

Let the cost price of the table = ₹ 100 So, marked price = ₹ 150 According to the question, selling price of table = ₹ 110 So, discount percentage =  $\frac{150 - 110}{150} \times 100 = 26.67\%$ 

## 49. Option (2) is correct.

Let the efficiency of Sohan = 1 unit per day So, the efficiency of Aman = 2 units per day And the efficiency of Mohan = 6 units per day Let total work =  $(1 + 2 + 6) \times 18 = 162$  units Hence, Time taken by Sohan alone to complete the work =  $\frac{162}{1} = 162$  days

#### 50. Option (4) is correct.

Given that the marked price of the ring = ₹ 20000 According to the question, Net selling price after three successive discounts =  $20000 \times \frac{90}{100} \times \frac{80}{100} \times \frac{70}{100} = ₹ 10080$ 

### 51. Option (2) is correct.

Given that the length of  $1^{st}$  train = 442 m So, speed of 1<sup>st</sup> train =  $\frac{442}{13}$  = 34 m/s

Length of  $2^{nd}$  train = 442 m Let the speed of the  $2^{nd}$  train = x m/s Using, distance = speed  $\times$  time  $\Rightarrow 442 + 442 = (34 + x) \times 17$  $\Rightarrow$  52 = 34 + x  $\Rightarrow x = 18 \text{ m/s}$ 

**Option (3) is correct.** Solution: Let the principal amount = 5xInterest earned = x

Using, SI = 
$$\frac{PRI}{100}$$

$$\Rightarrow x = \frac{5x \times R \times 5}{5x \times R \times 5}$$

100  $\Rightarrow R = 4\%$ 

53. Option (1) is correct. Given, Radius of cone = 24 cm

Height of cone = 10 cm

So, slant height (*l*) of cone =  $\sqrt{24^2 + 10^2} = \sqrt{576 + 100} = 26$ Using, total surface area of cone =  $\pi r (r + l)$ 

$$=\frac{22}{7} \times 24(24+26) = 3771.43 \text{ cm}^2$$

## 54. Option (2) is correct.

Prime numbers between 30 to 50 = 31, 37, 41, 43, 47So, required sum = 31 + 37 + 41 + 43 + 47 = 199

## 55. Option (3) is correct.

Required number = LCM(5, 8, 15)= 120

52.

56. Option (2) is correct.

Let the cost price of bottle for  $A = \mathcal{F} x$ 

According to the question,  $x \times \frac{130}{100} \times \frac{80}{100} = 3744$ 

$$\Rightarrow x = \frac{3744}{1.3 \times 0.8} = 3600$$

## 57. Option (3) is correct.

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

$$\Rightarrow 288 = 8000 \times \left(\frac{r}{100}\right)^2$$
$$\Rightarrow \frac{144}{4000} = \left(\frac{r}{100}\right)^2$$
$$\Rightarrow \frac{r}{100} = \frac{12}{200}$$
$$\Rightarrow r = 6\%$$

#### 58. Option (3) is correct.

Sum of 8 numbers =  $8 \times 47 = 376$ Sum of first 3 numbers =  $3 \times 53 = 159$ Sum of 4<sup>th</sup> and 5<sup>th</sup> number =  $2 \times 55 = 110$ Let 7<sup>th</sup> and 8<sup>th</sup> number = x and y According to the question, x - 7 = y - 10  $\Rightarrow x = y - 3$ Now, 376 = 159 + 110 + (y - 10) + (y - 3) + y  $\Rightarrow 110 = 3y - 13$  $\Rightarrow y = 40$ 

#### 59. Option (2) is correct.

Total age of 17 students =  $17 \times 20 = 340$  years Now, after including new student, total age of 18 students = 340 + 38 = 378 years

So, new average =  $\frac{378}{18}$  = 21 years

## 60. Option (4) is correct.

Let the total marks = x

According to the question,  $\frac{60}{100} \times x + 24 = \frac{80}{100} \times x$  $\Rightarrow 2x = 240$ 

 $\Rightarrow x = 120$ 

#### 61. Option (3) is correct.

Neither Prerna nor Vishaka understands the meaning of friendship. The part 'Vishaka understand the' will be replaced by 'Vishaka understands the'. This is a case of subject-verb disagreement. In case of, the co-relative conjunction 'neither...nor', the second subject number decides the verb. Here, the subject is Vishaka (a singular noun), hence the verb 'understand' should be in singular, i.e., 'understands'.

### 62. Option (3) is correct.

The liberal party is cracking under the pressure of these allegations. The blank requires a noun to answer the verb 'cracking under what?'. 'Allegations' mean a statement, made without giving proof, that someone has done something wrong or illegal. If someone cracks, they lose control of their emotions or actions because they are under a lot of pressure.

#### 63. Option (3) is correct.

I'm unable to contact my friend, who deceived me when I was weaker. The part 'when I was more' will be replaced by 'when I was weaker'. This is because it is redundant and inappropriate to use double comparatives in a sentence (more

weaker).

## 64. Option (1) is correct.

Fold your clothes, it is high time you clean up the mess. Options (3) and (4) have incorrect spellings of fold.

#### 65. Option (4) is correct.

The software revolution is at its peak in India. The part 'its peak' will replace 'its peaks'. We say "at its peak" implying it is at its very best moment in its history.

## 66. Option (4) is correct.

The house has a pear tree in the backyard. The part 'has a pear tree' will replace 'is a pear tree', as the verb 'has' shows possession or ownership. The name of the tree is 'pear', not 'pears'.

#### 67. Option (1) is correct.

Construe means interpret (a word or action) in a particular way. Thus, the opposite of interpret is misunderstand. Thus, the antonym is 'misunderstood'.

## 68. Option (1) is correct.

Studies suggest that well-designed e-books can support early literacy in kids. The sentence is grammatically flawless. There are no errors.

#### 69. **Option (1) is correct.**

Marine ecosystems were comparatively more resistant to extreme weather events. Other options have incorrect spellings of: Marine, ecosystems, comparatively, and resistant.

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

He made several excursions in the tribal habitats there. The word 'excursions' is spelt incorrectly here as 'excrsions', 'excursions' imply a short journey or trip.

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

The idiom 'drastic times call for drastic measures' means 'extreme circumstances are only resolved by equally extreme actions.' Example: When the bordering country ambushed Indian soldiers and killed innocents by forceful invasions, Indian government decided to enter into their country and open fire in their territory. This is what is called drastic times call for drastic measures.

#### 72. Option (4) is correct.

The word 'irritated' means annoyed. Pacified and appeased are antonyms. The synonym is displeased. Example: I felt irritated when I was prompted for the third time, while watching a movie.

#### 73. Option (3) is correct.

The party was great and we had a ball. To have a ball means to enjoy thoroughly. Beat around the bush means to avoid answering a question; to stall; to waste time. If you cut corners, you do something quickly by doing it in a less thorough way than you should.

#### 74. Option (4) is correct.

He sanded the wood with coarse sandpaper. Here, 'sanded the wood' will replace 'sand the wood' as the action represents a past act.

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

Façade means a false appearance that makes someone or something seem more pleasant. So, the antonym is truth.

## 76. Option (2) is correct.

The initial two Russian PWR types at the Kudankulam site were apart from India's three-stage plan. It must be noted that the paragraph is in past, so the verb for the blank will be in its past form -were.

## 77. Option (3) is correct.

The initial two Russian PWR types at the Kudankulam site were apart from India's three-stage plan for nuclear power. 'For; is used to talk about a purpose or a reason for something. Here, the reason is 'nuclear power'.

#### 78. Option (1) is correct.

The initial two Russian PWR types at the Kudankulam site were apart from India's three-stage plan for nuclear power and were simply to increase generating capacity more rapidly. Here, 'more' is used to indicate that there is a greater amount of something than before.

## 79. Option (1) is correct.

Now there are plans for eight 1000 MWe units at that site,... The blank demands a plural noun connoting some sort of tactics. Thus, 'plans' is the most appropriate choice.

## 80. Option (4) is correct.

Now there are plans for eight 1000 MWe units at that site, and in January 2007 a memorandum of understanding was signed for Russia. A memorandum (a written message in business or diplomacy) between countries needs to be sanctioned and signed by a country.