STAFF SELECTION COMMISSION

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

SOLVED PAPER

(5th Feb 2025: Shift-1)

Time Allotted: 1 hour

Important Instructions:-

- This paper contains 80 questions which are divided into 4 sections. Each section contains 20 questions.
 - General Intelligence and Reasoning
 - General Knowledge and General Awareness
 - Elementary Mathematics
 - English
- There will be 2 marks for each correct answer and also there will be a negative marking of 0.5 marks for each wrong answer.
- Each question is compulsory to attempt and there will be no negative marking for the unattempted questions.

General Intelligence & Reasoning

- 1. E, F, G, H, K, L, and N are sitting around a circular table facing the centre (but not necessarily in the same order). Only two people sit between H and G when counted from the right of H. Only three people sit between L and N when counted from the right of N. G sits to the immediate right of N. K sits to the immediate right of E. How many people sit between F and E when counted from the left of F?
 - 1. Two
 2. Four

 3. Three
 4. One
- What should come in place of the question mark (?) in the given, series based on the English alphabetical order? BMY, DNW, ?, HPS
 - **1.** FOT **2.** FOU **3.** EOU **4.** FPU
- Select the Venn diagram that best illustrates the relationship between the following classes. Onion, Vegetable, Shirt



4. In a certain code language, 'BASE' is coded as '8970' and 'ASET' is coded as '0697'. What is the code for 'T' in the given code language?

1.0

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

4.7



- 6. What should come in place of the question mark (?) in the given series?
 - 173 151 130 110 91?



- 7. The position(s) of how many letters will remain unchanged, if each of the letters in the word OPERATOR is arranged in the English alphabetical order?
- Two
 Zero
 One
 Three
 FROM is related to WJFE in a certain way based on the English alphabetical order. In the same way, VLEG is related to MDVY. To which of the following options is UNDI related, following the same logic?

1. LFAU 2. LFUA 3. LLFA 4. LAUF

- 9. In a certain code language.
 - 'U + S' means 'U is the daughter of S'.
 - 'U @ S' means 'U is the father of S'.
 - 'U * S' means 'U is the husband of S'.
 - 'U # S' means 'U is the mother of S'.
 - Based on the above, how is B related to E if 'E * L # B @ P'?
 - 1. Son 2. Brother's son
 - **3.** Brother **4.** Son's son
- **10.** Kunti, Panjiri, Anjali, Hansraj, and Roshan are sitting on a circular table facing the centre (but not necessarily in the same order). Roshan is sitting to the immediate right of Hansraj and Hansraj is sitting to the immediate right of Anjali. Panjiri is the immediate neighbour of Kunti and Roshan. Which of the following statements is correct?
 - 1. Roshan is the immediate neighbour of Hansraj and Kunti.
 - 2. Anjali is the immediate neighbour of Kunti and Hansraj.
 - **3.** Kunti is the immediate neighbour of Anjali and Roshan.
 - 4. Panjiri is the immediate neighbour of Hansraj and Anjali.
- 11. The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



Max marks: 160



12. A dice has its faces marked by letters R, E, I, P, Y and A. Two positions of the same dice are given below. Which face is opposite to face P?



13. 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 lyricists are singers.

Some singers are writers.

No writer is a musician.

Conclusions:

(I): No lyricist is a musician.

- (II): Some writers are lyricists.
- 1. Only conclusion (II) follows.
- 2. Only conclusion (I) follows.
- 3. Neither conclusion (I) nor (II) follows.
- 4. Both conclusions (I) and (II) follows.
- **14.** Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



15. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

C R_S__R O S_C__S S_R_S_ 1. ONPADEPOT 2. OSCSROCOS

- 16. Based on the English alphabetical order, three of the following four-letter cluster are alike in a certain way and thus form a group. Which letter cluster DOES NOT belong to that group? (Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)
 1. VSW
 2. WTX
 3. NLO
 4. KHL
- 17. What should come in place of the question mark (?) in the given series?

 $666\;676\;687\;699\;712\;?$

1. 730 **2.** 722 **3.** 724 **4.** 726

18. What will come in the place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and '×' are interchanged?
16 2×104+4+20=2

$$16 - 2 \times 104 + 4 - 20 = ?$$
1. 37 **2.** 26 **3.** 29 **4.** 33

19. In a certain code language 'GPZJ' is coded as '98' and 'OWRS' is coded as '66'. What is the code for 'VIXE' in the given language?

20. CGJK is related to IMPQ in a certain way based on the English alphabetical order. In the same way, HLQR is related to NRWX. To which of the given options is AEMO related, following the same logic?

21. In which year did Bhimrao Ramji Ambedkar lead the Mahad Satyagraha?

1.	1925	2.	1918
3	1923	4	1927

- **22.** The Boilers Bill, 2024, introduced in Rajya Sabha on 8 August 2024, seeks to replace which previous Boilers Act?
 - 1. Boilers Act, 1955
 - 2. Boilers Act, 1923
 - 3. Boilers Act, 1975
 - 4. Boilers Act, 1965
- 23. 'Streets Of Calcutta' and 'Dancing Drums' are the two popular tracks of ______.
 - 1. Zakir Hussain
 - 2. Begum Akhtar
 - 3. Ananda Shankar
 - 4. Anoushka Shankar
- 24. What impact did the 'Green Revolution' have on India's dependence on food imports?
 - 1. Increased dependence on food imports
 - 2. No change in dependence on food imports
 - **3.** Decreased dependence on food imports
 - 4. Stopped food imports completely
- 25. The Constituent Assembly met for the first time on:
 - 1. 12th December 1946
 - 2. 9th December 1946
 - 3. 7th December 1946
 - 4. 15th December 1946
- **26.** Which species of green algae, commonly known as stonewort, is often mistaken for a plant?
 - 1. Sargassum 2. Kelp
 - **3.** Chara **4.** Gracilaria
- **27.** At room temperature and pressure, kinetic energy of the particles are minimum in case of:
 - 1. iron 2. methane 3. kerosene 4. water
- **28.** Which of the following neighbouring countries of India has the highest number of million cities?
- Pakistan
 Nepal
 Sri Lanka
 Bangladesh
 'Public provision' refers to those goods and services financed through the budget and:
 - 1. can be used by taxpayers only
 - 2. can be used only with direct payment
 - 3. can be used without any direct payment
 - 4. are available through online payment only
- **30.** Smriti Mandhana is associated with which of the following sports?
 - 1. Badminton 2. Hockey 3. Wrestling 4. Cricket
- **31.** Which of the following was NOT an outcome of the Green Revolution?
 - 1. Decrease in rural population
 - 2. Increased food grain production
 - 3. High dependency on chemical fertilisers and pesticides
 - 4. Improved agricultural infrastructure

32. Which of the following classical dances is known to be ekaharya, where one dancer takes on many roles in a single performance? 1. Kuchipudi **2.** Mohiniattam 3. Kathakali 4. Bharatanatyam 33. Who is the cabinet minister of the Union Ministry of Education, as of September 2024? 1. HD Kumaraswamy 2. Piyush Goyal 3. Dharmendra Pradhan 4. Nitin Jairam Gadkari 34. The last Shunga ruler was killed by his minister in which century? 1. 2nd century BC 2. 1st century BC 3. 1st century AD 4. 3rd century BC 35. Who among the following makes the rules for the more convenient transaction of the business of the State Government? 1. Governor of the State 2. Advocate General of the State 3. Chief Minister of the State 4. Chief Secretary of the State 36. In which state is the Nandi Award for the best choreographer presented every year? 1. Andhra Pradesh 2. Madhya Pradesh **3.** Maharashtra 4. Karnataka **37.** Which of the following is a human-made water body created by blocking the flow of a river or stream? 1. Lagoon 2. Estuary 3. Oxbow lake 4. Reservoir 38. The term 'Rohingya Crisis' primarily involves refugees from which neighbouring country seeking shelter in various regions, including India? 1. Bangladesh 2. Myanmar 3. Nepal 4. Bhutan **39.** Who became the first Indian to win a gold medal in the World Athletics Championship? 1. Milkha Singh 2. Neeraj Chopra 3. PT Usha 4. Anju Bobby George 40. Which festival from West Bengal has found a place in the UNESCO list of Intangible Cultural Heritage of Humanity? 1. Poila Baisakh 2. Durga Puja 3. Jamai Shashti 4. Poush Sankranti

Elementary Mathematics

41. The mean proportional between 2.8 and 0.7 is:

1. 1.2 **2.** 1.8 **3.** 1.4 **4.** 1.9

42. The price of fuel decreases by 55%, 10% and 20% in three successive months, but increases by 65% in the fourth month. What is the % increase/decrease in the price of fuel in the 4th month as compared to its original price?

1. Increases by 48.43% **2.** Decreases by 46.54%

- **3.** Increases by 51.62% **4.** Decreases by 50.53%
- 43. The selling price of a fan is ₹7,392. If profit % is 32%, then what is the cost price (in ₹) of the fan?
 - **1.** 5,200 **2.** 5,600 **3.** 5,400 **4.** 4,800
- 44. The simple interest on a principal amount (in ₹) is ₹824 for a period of 4 years at the rate of 8% per annum. The principal amount (in ₹) is:

1. 2,575 **2.** 2,577 **3.** 2,573 **4.** 2,571

- 45. The average weight of Mandar, Ketan, and Tushar is 45 kg. If the average weight of Mandar and Ketan is 43 kg and that of Ketan and Tushar is 48 kg; then the weight of Ketan (in kg) is:
 1. 67
 2. 47
 3. 62
 4. 57
- **46.** What will be the difference between the sale price (in ₹) of a book with a marked price ₹1,500 under the following discount schemes?

- (i) Two successive discounts of 20% each
- (ii) Two successive discounts of 30% and 10%
- **1.** 18 **2.** 16 **3.** 20 **4.** 15
- **47.** Find the value of $\left[(50 \div 5) \times \left\{ \frac{72}{3} + \frac{12}{1} \times (8-7) \right\} \right]$
 - **1.** 355 **2.** 360 **3.** 342 **4.** 357
- 48. LCM and HCF of two numbers are 168 and 14 respectively. If one of the numbers is 42, then find the other number.
 1. 54
 2. 57
 3. 58
 4. 56
- **49.** The smallest natural number which is divisible by 26, 8, 11 and 13 is:
- 1082
 1201
 1126
 1144
 Shan has ₹1612 with him. He divided it amongst his sons Piyush and Manoj and asked them to invest it at 8% rate of interest compounded annually. It was seen that Piyush and Manoj got same amount after 12 and 13 years respectively. How much (in ₹) did Shan give to Piyush?

51. A work can be finished in a day by 20 men, or by 30 women, or by 50 boys. 2 men and 5 boys work on alternate days and 6 women work every day. If men work on the first day, the work is finished in _____ days.

1.
$$4\frac{1}{4}$$
 2. $4\frac{1}{3}$ **3.** $3\frac{1}{4}$ **4.** $3\frac{1}{3}$

52. When the difference between compound and simple interest for three years is ₹244 at 5% interest per annum, the principal is ₹

1.
$$32000$$
2. 33200 3. 32420 4. 31425 53. Evaluate: $(-9) - (-60) \div (-15) + (-3) \times 7$

1. -36 **2.** -37 **3.** -34 **4.** -33 **54.** Manoj travel from City A to City B. If Manoj drives his car at

 $\frac{1}{5}$ of his normal speed, then he reaches City B 36 min late.

Find the time (in min) that Manoj would have taken to travel from City A to City B if he drove at his normal speed.

- 1.9 2. 14 3. 7 4. 18 55. A man goes to Ahmedabad from Kolkata at a speed of 78km/hr and returns to Kolkata at speed of 91km/h, through same route.
- What is his average speed (in km/h) of the entire journey? **1.** 78 **2.** 84 **3.** 81 **4.** 85
- **56.** A university has 500 faculty members (male and female only) out of which females are 60%. The average height of females is 162 cm and that of males is 168 cm. What is the average faculty height (in cm) of the University?
- **1.** 125.4 **2.** 146.4 **3.** 176.4 **4.** 164.4 **57.** If 2% of x = 348, then x is equal to:
- **1.** 17400 **2.** 17500 **3.** 34800 **4.** 34900
- 58. If the edge of a cube is tripled, then its volume increases to times its original volume.
 1. 64
 2. 27
 3. 8
 4. 9
- **59.** Find the third proportional of $(3+\sqrt{2})$ and $2\sqrt{7}$

1.
$$(12+\sqrt{8})$$
 2. $2(3+\sqrt{2})$ **3.** $(12-\sqrt{8})$ **4.** $4(3-\sqrt{2})$

60. Sachin sold 152 chairs and had a gain equal to the selling price of 52 chairs. What is his profit %?

1. 47% 2. 57% 3	3. 52%	4. 62%
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English

- **61.** Select the most appropriate ANTONYM of the given word. Meager
 - 1. Unfortunate 2. Unsafe 3. Adequate 4. Unbiased

- 62. Select the most appropriate option to fill in the blank. I would like to know this machine works.
 1. whatever 2. that 3. what 4. how
- 63. Select the most appropriate synonym of the word 'inconsistencies' to fill in the blank. As the engineers reviewed the data from the Mars rover, they were particularly interested in any ______ that might indicate a malfunction in the vehicle.
 1. transmissions 2. specifications 3. confirmations 4. anomalies
- 64. Select the option that best expresses the meaning of the underlined idiom. Tushara was asked to gather demographic data that could be useful <u>down the road.</u>
 1. In the future
 2. In the present
 - **3.** On the way **4.** In an informal way
- 65. Select the most appropriate option to fill in the blanks.
 The (1) city was filled with bustling markets, towering (2), and narrow streets, making it an exciting place to (3) daily.
 - 1. (1) skyscrapers; (2) explore; (3) vibrant
 - 2. (1) explore ; (2) vibrant ; (3) skyscrapers
 - **3.** (1) vibrant ; (2) skyscrapers ; (3) explore
 - 4. (1) vibrant; (2) explore; (3) skyscrapers
- **66.** Select the correct spelling of the incorrectly spelt word in the given sentence.

The librarian helped him find the information in an obscure referance book.

- reference 2. referrence 3. referent 4. refferance
 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
 (A) She confidently presented her findings to the committee, / (B) articulating her ideas clearly / (C) and impressing everyone / (D) with her extensive research and knowledge.
 A 2. B 3. C 4. D
- 68. Select the most appropriate option to fill in the blank. Her ______ behaviour in the interview revealed her clear state of mind.
 1. shrouded
 2. subtle
 - **3.** obscure **4.** conspicuous
- **69.** Select the most appropriate ANTONYM of the given word. Dejection
 - 1. Cheer2. Glamour3. Malnutrition4. Stagnance
- Malnutrition
 Stagnancy
 Select the option that best defines the given word. Dismav
 - 1. Horrifyingly wicked
 - 2. Showing admiration
 - **3.** A feeling of unhappiness
 - 4. Something very cumbersome

 Select the most appropriate synonym of the given word. Resilient

Content
 Coarse
 Strong
 Antique
 Select the most appropriate option to fill in the blank.

- Determine the collocation through the sentence. When she received the news about the death of her uncle, she into tears.
- burst
 shed
 bowed
 started
 Select the most appropriate phrase to substitute the underlined word in the given sentence.
 Shahid Bhagat Singh was a patriot completely.
- by and by
 through and through
 down and out
 off and on
 Select the INCORRECTLY spelt word.
- Chronology 2. Legible 3. Necessity 4. Vandetta
 Parts of the following sentence have been given as options. Select the option that contains an adverb usage error. Mr Daniel, the police officer, commented, 'The fire clumsily
 - Mr Daniel, the police officer, commented, The fire clumsily spread through the building'.
 - 1. commented,
 - 2. 'The fire clumsily spread
 - Mr Daniel, the police officer,
 through the building'.
 - Comprehension:

di fili di la comprenension.

In the following passage, some words have been deleted. Read the passage carefully, and select the most appropriate option to fill in, each blank.

- Deoxyribonucleic acid (DNA) is a very special molecule. It (1)______ as the code for all life on Earth, holding the cellular instructions to (2)
- everything from a beetle to a human. Because DNA is (3)_______ to each species, it's like a product barcode in a supermarket. As animals and plants live their lives, they (4)_______ fragments of their DNA into their environment (5)______ dead skin, hair, saliva, scat, leaves or pollen. These traces make up environmental DNA. There's enough DNA in water and even air to tell species apart.
- 76. Select the most appropriate option to fill in the blank no. 1.1. acts2. keeps3. present4. delivers
- 77. Select the most appropriate option to fill in the blank no. 2.1. finish2. make3. stop4. clarify
- 78. Select the most appropriate option to fill in the blank no. 3.1. unique2. usual3. slight4. common
- 79. Select the most appropriate option to fill in the blank no. 4.1. shed2. treat3. melt4. strike
- 80. Select the most appropriate option to fill in the blank no. 5.1. farther2. above3. for4. through

Answer Key

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

Answers with Explanations

1. Option (3) is correct.



Three persons sit between F and E when counted from the left of F.

2. Option (2) is correct.

W

I

F

Е



Anjali is the immediate neighbour of Kunti and Hansraj

11. Option (3) is correct.

····•	~	oDo	

Logic:

Follow the pattern and the symmetry. Hence, it is the correct answer.



12. Option (3) is correct.





A - Y - R

A will be opposite to face P.

13. Option (3) is correct.



14. Option (4) is correct.

X X X X X X X X X X X X X X X X X X X X	××××× ×××××	× × × × × × × × × × × × × × × × × × ×	?
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Logic:

From the first box till the last one the pattern is:

0 -1 multiple of 3, i.e., -9.

Follow the pattern and the symmetry. Hence, it is the correct answer.



15. Option (2) is correct.

 $CR_S_ROS_C_SS_R_S$

Logic: C R <u>O</u> S <u>S</u> / <u>C</u> R O S <u>S</u> /C <u>R O</u> S S /<u>C</u> R <u>O</u> S <u>S</u>

16. Option (3) is correct.

- r · · · (-) ·		
V <u>-3</u>	→ S <u>+4</u>	W W
W3	▶ ^T +4	• X
N2	► <u>L</u> +3	• 0
К3	→ ^H +4	→ ^L

- 17. Option (4) is correct.
 - 666 + 10 = 676676 + 11 = 687687 + 12 = 699699 + 13 = 712712 + 14 = 726

18. Option (2) is correct.

 $16 - 2 \times 104 + 4 \div 20 = ?$ Logic: Interchange – and \times And + and ÷ Using BODMAS Rule, We will get $= 16 \times 2 - 104 \div 4 + 20$ $= 16 \times 2 - 26 + 20$ = 32 - 26 + 20= 26

- 19. Option (1) is correct.
- 'GPZJ' is coded as '98' Reverse position values in the alphabet $GPZJ = 20 + 11 + 1 + 17 = 49 \times 2 = 98$ Similarly, Code for 6

$$VIXE = 5 + 18 + 3 + 22 = 48 \times 2 = 9$$



21. Option (4) is correct.

Dr. Bhimrao Ramji Ambedkar led the Mahad Satyagraha on 20 Mar 1927, in Mahad, Maharashtra, to demand equal access to public water sources for Dalits. During that time, Dalits were denied the right to drink water from the Chavdar Tank, despite it being a public resource. In a powerful act of defiance against caste-based discrimination, Ambedkar, accompanied by thousands of supporters, drank water from the tank, asserting their right to equality. This movement marked a significant milestone in India's fight for social justice and caste reform.

22. Option (2) is correct.

The Boilers Bill, 2024, introduced in the Rajya Sabha on 8 Aug 2024, aims to replace the Boilers Act, of 1923, which has been in place for over a century. This new legislation seeks to modernise the regulatory framework governing the design, manufacture, and operation of boilers in India, focusing on improved safety standards and ease of doing business. Key provisions of the bill include the decriminalisation of minor offenses, the retention of penalties for serious violations, and the implementation of a transparent regulatory mechanism with greater accountability. These reforms are designed to ensure safer boiler operations and maintenance by qualified professionals.

23. Option (3) is correct.

Ananda Shankar, an Indian musician and composer known for blending Indian classical music with Western rock and electronic music, created the popular tracks "Streets of Calcutta" and "Dancing Drums." His fusion style gained international recognition, and his work remains influential in the world of experimental and electronic music.

24. Option (3) is correct.

The Green Revolution in India, which began in the 1960s, significantly increased agricultural production, especially for wheat and rice, through the use of High-yield variety (HYV) seeds, chemical fertilisers, irrigation, and modern farming techniques. As a result, India became self-sufficient in food production, reducing its reliance on food imports. While it did not eliminate food imports, it greatly decreased India's dependence on them helped improve food security in the country.

25. Option (2) is correct.

The Constituent Assembly of India convened for the first time on 9th December 1946, in New Delhi. Dr Sachchidananda Sinha served as the temporary chairman during this inaugural session. Later, Dr Rajendra Prasad was elected as the permanent President of the Assembly. The primary role of the Assembly was to draft the Constitution of India, which was formally adopted on 26^{th} November 1949 and came into effect on 26^{th} January 1950.

26. Option (3) is correct.

Chara, also known as stonewort, is a type of green algae that closely resembles higher plants due to its stem-like and leaf-like structures. Its complex morphology and rootlike rhizoids, which anchor it to the substrate, often lead to it being mistaken for a plant. Found primarily in freshwater habitats, Chara plays a vital role in maintaining water quality by absorbing excess nutrients.

27. Option (1) is correct.

At room temperature and pressure, solids have the lowest kinetic energy as their molecules are tightly packed and can only vibrate in fixed positions. Iron, being a solid, possesses the least kinetic energy, whereas methane (gas), kerosene (liquid), and water (liquid) have higher kinetic energy due to the greater mobility of their particles.

28. Option (1) is correct.

Among India's neighbouring countries, Pakistan has the highest number of cities with populations exceeding one million. Major urban centers such as Karachi, Lahore, Faisalabad, Rawalpindi, Multan, Gujranwala, Peshawar, and Islamabad has over a million residents. In comparison, Bangladesh has several million-plus cities, including Dhaka and Chittagong, but fewer than Pakistan. Meanwhile, Nepal and Sri Lanka have relatively smaller urban populations, with Kathmandu and Colombo are their largest cities, though neither exceeds the one million mark.

29. Option (3) is correct.

Public provision refers to goods and services that are funded by the government through its budget and provided to the public without requiring direct payment at the point of use. These services are financed primarily through tax revenues and aim to promote social welfare and economic equality.

Examples of Public Provision:

Education – Government schools and Universities offer free or subsidised education.

Healthcare – Public hospitals and health schemes provide medical treatment without direct payment.

Infrastructure – Roads, street lighting, and public parks are accessible to everyone without fees.

Welfare Programs – Subsidised food under the Public Distribution System (PDS) and social security schemes like pensions.

30. Option (4) is correct.

Smriti Mandhana is a renowned Indian cricketer and one of the top batters in women's cricket. Representing the Indian women's national team, she is known for her aggressive and stylish batting. Over the years, she has earned several prestigious awards, including the ICC Women's Cricketer of the Year. Mandhana has played a crucial role in India's international cricket achievements, contributing significantly to tournaments like the Women's Cricket World Cup and T20 World Cup.

31. Option (1) is correct.

The 'Green Revolution' in India, which began in the 1960s, led to significant agricultural advancements, but it did not result in a decrease in the rural population. Instead, it had the following outcomes:

Increased food grain production – High-yield variety (HYV) seeds, irrigation, and mechanisation led to a sharp rise in crop production, especially wheat and rice.

High dependency on chemical fertilisers and pesticides – Farmers increasingly relied on synthetic fertilisers, pesticides, and herbicides to enhance the crop yields.

Improved agricultural infrastructure – Investments in irrigation, roads, and storage facilities helped modernise agriculture and boost productivity. However, the rural population growth continued, and while some labour migrated to urban areas due to mechanisation, there was no significant decrease in the overall rural population as a direct result of the 'Green Revolution'.

32. Option (4) is correct.

Bharatanatyam is traditionally performed as an ekaharya, meaning a solo performance, where a single dancer portrays multiple characters, and narratives.

33. Option (3) is correct.

As of September 2024, Dharmendra Pradhan serves as the Union Minister of Education in India. He has held this position since 9 June 2024, under the Third Modi Ministry.

34. Option (2) is correct.

The Shunga Dynasty governed parts of northern and central India following the decline of the Maurya Empire. It's last ruler, Devabhuti, was assassinated by his minister, Vasudeva Kanva, in the 1st century BC, leading to the rise of the Kanva Dynasty, which replaced the Shungas. Founded around 185 BC by Pushyamitra Shunga, who overthrew the Mauryan ruler Brihadratha, the dynasty lasted until 73 BC, when Devabhuti was killed, marking the end of Shunga's rule.

35. Option (1) is correct.

According to Article 166(3) of the Indian Constitution, the Governor of a State has the power to make rules for the convenient transaction of business of the State Government and for the allocation of responsibilities among ministers.

- The Governor exercises this power by the aid and advice of the Chief Minister and the Council of Ministers.
- These rules help in organising the workflow, assigning duties, and ensuring smooth administration within the state government.

• The Governor, as the constitutional head of the state, ensures that the government functions efficiently while remaining within the constitutional framework.

36. Option (1) is correct.

The Nandi Awards are the prestigious state film awards presented by the Government of Andhra Pradesh to honor excellence in Telugu cinema, television, and theatre. Among its various categories, the Best Choreographer Award recognises exceptional achievements in dance choreography in Telugu films. Instituted in 1964, these awards are named after "Nandi", the sacred bull of Lord Shiva, symbolising strength and artistic excellence. The Andhra Pradesh State Film, TV, and Theatre Development Corporation oversees the administration of these awards.

37. Option (4) is correct.

A reservoir is a human-made water body created by constructing a dam or barrier across a river or stream to store and control water flow. These artificial lakes serve multiple purposes, including water supply for drinking and irrigation, hydroelectric power generation, flood control, and recreation. Reservoirs help regulate river flow, prevent droughts, and support agricultural activities by ensuring a steady water supply. Some of the largest reservoirs in India include Hirakud Reservoir (Odisha), Gobind Sagar (Himachal Pradesh), and Nagarjuna Sagar (Telangana-Andhra Pradesh).

38. Option (2) is correct.

The Rohingya Crisis refers to the large-scale displacement of the Rohingya Muslim minority from Myanmar's Rakhine State, driven by persecution, violence, and ethnic cleansing. Facing severe human rights abuses, hundreds of thousands of Rohingyas have sought refuge in neighbouring countries such as Bangladesh, India, Malaysia, and Indonesia. The crisis intensified in 2017, following a military crackdown in Myanmar, which forced over 7,00,000 Rohingyas to flee. Cox's Bazar in Bangladesh became home to the largest refugee camps. Additionally, many Rohingyas entered India, raising humanitarian and security concerns.

39. Option (2) is correct.

Neeraj Chopra created history by becoming the first Indian to win a gold medal at the World Athletics Championships. He secured this landmark victory in the men's javelin throw at the 2023 World Athletics Championships in Budapest, Hungary, with an impressive throw of 88.17 m. Before this achievement, India's only medal at the World Athletics Championships was a bronze won by Anju Bobby George in the women's long jump in 2003. Neeraj Chopra's triumph was not just a personal milestone but also a historic breakthrough for Indian athletics, elevating the country's presence on the global sporting stage.

40. Option (2) is correct.

Durga Puja, the grand festival of West Bengal, was inscribed in the UNESCO Representative List of Intangible Cultural Heritage of Humanity in 2021. This festival is a major sociocultural and religious events, celebrated with grand pandals, artistic idols, cultural performances, and rituals across the state, especially in Kolkata. Durga Puja is more than just a religious festival—it is a cultural phenomenon that brings together people from all backgrounds. The recognition by UNESCO highlights its artistic, social, and community significance on a global stage.

41. Option (3) is correct.

42.

Mean proportional between a and $b = \sqrt{ab}$ Given, a = 2.8, b = 0.7 \therefore Mean proportional = $\sqrt{2.8 \times 0.7}$ $= \sqrt{1.4 \times 1.4}$

$$= 1.1 \times 1$$

Option (2) is correct. Let origional price of fuel = xFuel price in first month = $x \left(1 - \frac{55}{100} \right)$ = 0.45xFuel price in second month = $0.45x \left(1 - \frac{10}{100}\right)$ = 0.45x (0.9)= 0.405xFuel price in third month = $0.405x \left| 1 - \right|$ = 0.405x(0.8)= 0.324 xFuel price in fourth month = 0.324x 1+ = 0.324x (1.65)= 0.5346xFuel price decrease = x - 0.5346x= 0.4654x $0.4654x \times 100$ % decrease = = 46.54%

43. Option (2) is correct.
Let cost of fan = x
Profit =
$$x \times \frac{32}{100} = 0.32x$$

∴ Selling price of fan = $x + 0.32x$
= 1.32x

According to question,

1.32x = 7392 $\Rightarrow \qquad x = \frac{7392}{1.32}$

$$\Rightarrow$$
 $x = 5600$

Let principal amount = p

44. Option (1) is correct.

t = 4 years r = 8%

Interest =
$$824$$

Simple Interest = $\frac{p.r.t}{100}$

$$824 - \frac{p \times 8 \times 1}{2}$$

$$\Rightarrow \qquad p = \frac{1}{8 \times 4}$$

$$\Rightarrow \qquad p = 2575$$

45. Option (2) is correct.

....

Let weight of Mandar =
$$m$$

weight of ketan = k

weight of Tushar = t

$$\therefore \qquad \frac{m+k+t}{3} = 45$$

$$\Rightarrow \qquad m+k+t = 135 \qquad \dots(i)$$
And
$$\frac{m+k}{2} = 43$$

$$\Rightarrow \qquad m+k = 86 \qquad \dots(ii)$$
And
$$\frac{k+t}{2} = 48$$

$$\Rightarrow \qquad k+t = 96 \qquad \dots(iii)$$
Adding equation (i) and (iii),

$$m+2k+t = 86+96$$

$$m+2k+t = 182 \qquad \dots(iv)$$
From equation (i) and (iv), we get
$$k+m+k+t = 182$$

$$k+135 = 182$$

$$k = 182 - 135$$

$$k = 47$$

46. Option (4) is correct.

Scheme (i)

Sale price =
$$1500 \left(1 - \frac{20}{100} \right) \left(1 - \frac{20}{100} \right)$$

= $1500 (0.8) (0.8)$
= $1200 (0.8)$
= 960

Scheme (ii)

Sale price =
$$1500 \left(1 - \frac{30}{100} \right) \left(1 - \frac{10}{100} \right)$$

= 1500 (0.7) (0.9)
= 1050 (0.9)
= 945

Difference between sale price of both scheme = 960 - 945= 15

47. Option (2) is correct.

$$\left[(50 \div 5) \times \left\{ \frac{72}{3} + \frac{12}{1} \times (8 - 7) \right\} \right]$$

= $\frac{50}{5} \{ 24 + 12 \times 12 = 10 \{ 24 + 12 \} = 10 \{ 36 \} = 360$

48. Option (4) is correct. Let two numbers are a and b. LCM of (a, b) = 168HCF of (a, b) = 14 a = 42we know that, LCLM of $(a, b) \times$ HCF of $(a, b) = a \times b$ \therefore 168 × 14 = 42 × b $b = \frac{168 \times 14}{42}$ $= \frac{168}{3}$ \Rightarrow b = 56 49. Option (4) is correct. Given numbers; $26 = 2 \times 13$ $8 = 2^3$ \therefore LCM of (26, 8, 11, 13) $= 2^3 \times 11 \times 13$ $= 8 \times 143$ = 1144Smallest natural number = 1144 50. Option (2) is correct. Let Piyush got *x* Rs. Monoj got 1612 - x Rs. r = 8%Piyush amount after 12 years

$$= x \left(1 + \frac{8}{100} \right)^{12}$$

Manoj amount after 13 years

$$= (1612 - x) \left(1 + \frac{8}{100} \right)^{13}$$

 \therefore According to question

$$x\left(1+\frac{8}{100}\right) = (1612-x)\left(1+\frac{8}{100}\right)$$
$$x = (1612-x)\left(\frac{108}{100}\right)$$
$$\Rightarrow 100x = 1612 \times 108 - 108x$$
$$\Rightarrow 100x + 108x = 1612 \times 108$$
$$\Rightarrow 208x = 1612 \times 108$$
$$\Rightarrow x = \frac{1612 \times 108}{208}$$

x = 837

Piyushy got ₹ 837 from shan.

51. Option (4) is correct. Let the work is *w*.

 \Rightarrow

Workdone by a man in a day = $\frac{w}{20}$ Workdone by a woman in a day = $\frac{w}{30}$ Workdone by a boy in a day = $\frac{w}{50}$ Workdone by 2 men in a day = $\frac{w}{10}$ Workdone by 6 women in a day = $\frac{w}{5}$ Workdone by 5 boys in a day = $\frac{w}{10}$ \therefore Workdone in a day = $\frac{w}{5} + \frac{w}{10}$ $= \frac{3w}{10}$ Total work finished = $\frac{w}{\left(\frac{3w}{10}\right)}$ $= \frac{10}{3}$ days $= 3\frac{1}{3}$ days

52. Option (1) is correct.

Let principal is p.

$$r = 5 \%$$

$$t = 3 \text{ years}$$

Compound Interest = $p \left[1 + \frac{r}{100} \right]^{t} - p$

$$= p \left[1 + \frac{5}{100} \right]^{3} - p$$

Simple Interest = $\frac{prt}{100}$

$$= \frac{p \times 5 \times 3}{100}$$

$$= \frac{3p}{20}$$

According to question,

$$p\left(1+\frac{1}{20}\right)^{3} - p - \frac{3p}{20} = 244$$

$$p\left\{\frac{9261}{8000} - \frac{23}{20}\right\} = 244$$

$$(61)p = 244 \times 8000$$

$$\Rightarrow \qquad p = \frac{244}{61} \times 8000$$

$$\Rightarrow \qquad p = 4 \times 8000$$

$$\Rightarrow \qquad p = 32000$$

53. Option (3) is correct.

=

$$(-9) - (-60) \div (-15) + (-3) \times 7$$
$$= -9 - \left(\frac{60}{15}\right) - 21$$
$$= -9 - 4 - 21$$
$$= -34$$

54. Option (1) is correct. Let normal speed of car is 5v. Let distance between city A to city B is x.

> $\frac{x}{v} = t + 36$:.

x = v(t + 36) \Rightarrow

Now,

$$\therefore \qquad t = \frac{1}{5}(t+36)$$

$$\Rightarrow \qquad 5t = t+36$$

$$\Rightarrow \qquad 4t = 36$$

$$\Rightarrow \qquad t = 9 \min$$

$$\Rightarrow t = 9$$

55. Option (2) is correct.

Let distance between Ahmedabad and kolkata is *x*. t_1 = travel time from kolkata to Ahmedabad t_2 = travel time from Ahmedabad to kolkata.

 $\frac{x}{5v}$

$$\therefore \qquad t_1 = \frac{x}{78}$$

$$t_2 = \frac{x}{91}$$
average speed = $\frac{\text{Total distance}}{\text{Total time}}$

 $=\frac{x+x}{\frac{x}{78}+\frac{x}{91}}$ $=\frac{2x}{x\left\{\frac{1}{78}+\frac{1}{91}\right\}}$ $=\frac{2}{\frac{1}{13}\left(\frac{1}{6}+\frac{1}{7}\right)}$ $\frac{2 \times 13}{\left(\frac{7+6}{7\times 6}\right)}$ $2 \times 13 \times 7 \times 6$ 7 + 6 $= 2 \times 7 \times 6$ Average speed = 84 km/h 56. Option (4) is correct. Total Faculty members = 500 Female faculty members = $500 \times \frac{60}{100} = 300$ Male faculty members = 500 - 300 = 200Average height of females = 162 cm Average height of males = 168 cm $162 \times 300 + 168 \times 200$ Average height of faculty = 300 + 200 $162 \times 3 + 168 \times 2$ = 486+336 3+2 5

$$= \frac{822}{5}$$

Average height of faculties = 164.4 cm 57. Option (1) is correct. 2% of x = 348

$$\therefore \qquad x \times \frac{2}{100} = 348$$
$$\Rightarrow \qquad x = \frac{348 \times 100}{2}$$

$$\Rightarrow$$
 $x = 17400$

58. Option (2) is correct.

Let edge of cube =
$$a$$

Initial volume = a^3 .
New edge of cube = $3a$
New volume = $(3a)^3 = 27a^3$

 $= 27 \times \text{Initial volume}$

59. Option (4) is correct.

 \Rightarrow

Let two numbers are a, b. Let third proportional of a, b is c: a:b::b:cor

$$\frac{a}{b} = \frac{b}{c}$$
$$c = \frac{b^2}{a}$$
$$c = \frac{(2\sqrt{7})}{3+\sqrt{2}}$$

$$= \frac{4 \times 7 \times (3 - \sqrt{2})}{(3 + \sqrt{2})(3 - \sqrt{2})}$$

$$\Rightarrow \qquad c = \frac{28(3 - \sqrt{2})}{9 - 2}$$

$$\Rightarrow$$
 $c = \frac{28(3-\sqrt{7})}{7}$

.:**.**

=

60. Option (3) is correct.

$$\therefore \qquad \text{profit} = 52x$$

$$\text{Cost of all chairs} = 152x - 52x$$

$$= 100x$$

$$\therefore \qquad \text{Profit percentage} = \frac{52x}{100x} \times 100$$

$$= 52 \%$$

61. Option (3) is correct.

Meagre implies very small in amount or number, or not enough. Unfortunate means not favoured by fortune; unsuccessful. Unbiased means able to judge fairly because you are not influenced by your own opinions. While 'adequate' means sufficient in quantity. Thus, the most suitable antonym for the word is 'adequate'.

(2)

 $c = 4(3 - \sqrt{2})$

62. Option (4) is correct.

This question tests one's skill of grammar. This tests one's proficiency in conjunction. 'How' refers to the method, manner, or process of something happening. Thus, this most fittingly aligns with the context of the operation of a machine. I would like to know how this machine works.

63. Option (4) is correct.

This question tests one's skill of vocabulary. Let us understand every word to identify the word that most suitably fits the blank. Transmission means the act of passing something (like information, power, or disease) from one place or person to another. Specifications refer to an explicit set of requirements. Confirmations means the action of confirming something or the state of being confirmed. Anomalies mean something different, abnormal, peculiar. Therefore, 'anomalies' fits the context. The correct answer is: As the engineers reviewed the data from the Mars rover, they were particularly interested in any anomalies that might indicate a malfunction on the vehicle.

64. Option (1) is correct.

This question tests one's skill of vocabulary. It tests one's command over idioms. The idiom 'down the road' means in the future. Example: Down the road, I see myself owning a farmhouse in San Fransico.

65. Option (3) is correct.

This question tests one's skill of vocabulary. The hint lies in the word 'bustling', which implies full of activity, and therefore, 'vibrant' is the most plausible option. Skyscrapers mean a very tall building of many storeys, while 'explore' is a verb that does not align with the context. While the adjective 'towering' confirms that the buildings were very tall; thus, 'skyscrapers' is the most appropriate choice. The third blank needs a verb to denote the act of sightseeing, thus, making 'explore' the best-suited option. The vibrant city was filled with bustling markets, towering skyscrapers, and narrow streets, making it an exciting place to explore daily.

66. Option (1) is correct.

This question tests one's proficiency in spelling. The sentence 'The librarian helped him find the information in an obscure referance book' contains a spelling error in the word 'referance'. The rectified spelling is 'reference', which means the act of referring, or consulting.

67. Option (1) is correct.

Here in (A) part, "She confidently presented her findings to the committee," suggests a completed past action (past tense "presented").

The present participles "articulating" and "impressing" in segments (B) and (C) indicate ongoing or simultaneous actions.

Hence, the correct sentence will be "She was presenting her findings confidently to the committee, articulating her ideas clearly, and impressing everyone with her extensive research and knowledge."

68. Option (4) is correct.

This question tests one's skill of vocabulary. Let us understand every word to identify the word that most suitably fits the blank. Shrouded means to hide something by covering or surrounding it. Subtle means not loud, bright, noticeable, or obvious in any way. Obscure means not discovered or known about; uncertain. While conspicuous means clearly visible. It is apparent that one's clarity in state of mind reveals the remarkable behaviour of the candidate in the interview. The correct answer is : Her conspicuous behaviour in the interview revealed her clear state of mind.

69. Option (1) is correct.

This question tests one's skill of vocabulary. Dejection implies a state of sadness, unhappiness, or a feeling of being disappointed and without hope. Glamour is not related to the emotion or feeling of unhappiness; while Malnutrition is a condition that occurs when the body doesn't get enough or the right nutrients. Stagnancy refers to a state of inactivity, lack of progress, or being still. Therefore, the most appropriate choice for the antonym of 'dejection' is 'cheer', meaning to make glad or happy.

70. Option (3) is correct.

Dismay refers to a strong feeling of disappointment, worry, or sadness caused by something unpleasant and unexpected. Thus, a feeling of unhappiness best defines 'dismay'. While horrifyingly wicked can be referred to as atrocious. One word to describe showing admiration is "revere. Something very cumbersome is unmanageable, and unwieldy.

71. Option (3) is correct.

Resilient means able to be happy, successful, etc. again after something difficult or bad has happened. Content is happy or satisfied; coarse suggests rough or harsh in texture; while antique belongs to ancient times. Therefore, the most appropriate synonym of resilient is strong.

72. Option (1) is correct.

This question tests one's skill of vocabulary. Let us understand every word to identify the word that most suitably fits the blank. The phrase "burst into tears" is a common expression used to describe someone suddenly starting to cry. Other options are not appropriate idiomatically. The correct answer is : When she received the news about the death of her uncle, she burst into tears.

73. Option (3) is correct.

The word 'completely' implies in every way or as much as possible ; totally. The phrase "through and through" means entirely or thoroughly, which aligns best in the context of describing Shahid Bhagat Singh as a patriot. The correct answer is: That Shahid Bhagat Singh was a patriot completely.

74. Option (4) is correct.

This question tests one's proficiency in spelling. Chronology is the science of arranging events in their order of occurrence in time. Legible is capable of being read or deciphered, refers to . Necessity is the state or fact of being required. Vandetta is spelled incorrectly; it is written as 'vendetta', meaning a blood feud in which the family of a murdered person seeks vengeance on the murderer or the murderer's family.

75. Option (2) is correct.

This question tests one's skill of grammar. It tests one's proficiency in adverbs. In the given sentence, the only adverb found is 'clumsily', which is an adverb of manner. It means that the fire spread in an awkward or tactless manner, but it doesn't make sense in the context of a fire spreading. Thus, the adverb must be replaced by 'rapidly', or 'quickly'. Hence, the part "The fire clumsily spread" is incorrect in its usage of adverbs.

76. Option (1) is correct.

The correct answer is: Deoxyribonucleic acid (DNA) is a very special molecule. It acts as the code for all life on Earth. Acts is a verb which means to behave in the way specified. 'Keeps' does not suit the blank, because it means to contain; 'delivers' means to carry out. 'Present' is incorrect because it is written as a plural verb, but the blank demands a singular verb.

77. Option (2) is correct.

The correct answer is: Deoxyribonucleic acid (DNA) is a very special molecule. It acts as the code for all life on Earth, holding the cellular instructions to make everything from a beetle to a human. The verb "make" is the most appropriate choice because it refers to the process of creating something, which aligns with the context of DNA providing instructions for the development of organisms. It is not related to completing something, stopping something, or clarifying something.

78. Option (1) is correct.

The correct answer is: Because DNA is unique to each species, it's like a product barcode in a supermarket. "Unique" means that each species has its distinct DNA, which validates the idea of a product barcode in a supermarket. Other options do not convey the same meaning.

79. Option (1) is correct.

The correct answer is: As animals and plants live their lives, they shed fragments of their DNA into their environment. Shed means to lose something naturally, and this justifiably aligns with the context of animals and plants releasing DNA fragments into the environment as a part of their biological processes.

80. Option (4) is correct.

The correct answer is: As animals and plants live their lives, they shed fragments of their DNA into their environment dead through skin, hair, saliva, scat, leaves, or pollen. The correct preposition to be used here is 'through', which means from one end or side of something to the other. This is made apparent in the process of shedding DNA via different materials or substances, like skin, hair, or saliva.