



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024



|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Community        | SC                                                                                                      |
| Test Center Name | iON Digital Zone iDZ Perecherla                                                                         |
| Test Date        | 09/12/2024                                                                                              |
| Test Time        | 12:30 PM - 2:00 PM                                                                                      |
| Subject          | Recruitment of Sub Inspector Executive in Railway Protection Force and Railway Protection Special Force |

\* Note  
Correct Answer will carry 1 mark per Question.  
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : Arithmetic

Q.1 Given that  $137^{0.42} = x$ ,  $137^{0.62} = y$  and  $x^z = y^2$ , then the value of z is close to:

- Ans
1. 4.66

2. 2.95

3. 2.8

4. 4.37

Q.2 A sum, when invested at 20% simple interest per annum, amounts to ₹3120 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

- Ans
1. 195

2. 780

3. 390

4. 1560

Q.3 LCM and HCF of two numbers are 162 and 27 respectively. If one of the numbers is 54, then find the other number.

- Ans
1. 80

2. 81

3. 82

4. 78

Q.4 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 8 hours 45 minutes. He would have gained 5 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

- Ans
1. 12 hours 45 minutes

2. 13 hours 30 minutes

3. 13 hours 45 minutes

4. 14 hours 15 minutes

|      |                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.5  | The smallest natural number which is divisible by 33, 6, 8 and 16 is:                                                                                                                                                                           |
| Ans  | <div>1. 500</div> <div>2. 550</div> <div>3. 502</div> <div>4. 528</div>                                                                                                                                                                         |
| Q.6  | Three partners invested in a business in the ratio 7:2:5. They invested their capitals for 11 months, 7 months and 12 months, respectively. What was the ratio of their profits?                                                                |
| Ans  | <div>1. 78:14:60</div> <div>2. 79:14:60</div> <div>3. 76:14:60</div> <div>4. 77:14:60</div>                                                                                                                                                     |
| Q.7  | A can contains a mixture of two liquids P and Q in the ratio 8 : 7. When 5 Litre of the mixture are drawn off and the can is filled with Q, the ratio of P and Q becomes 2 : 3. How many litres of liquid P was contained by the can initially? |
| Ans  | <div>1. <math>\frac{25}{3}</math> L</div> <div>2. <math>\frac{32}{3}</math> L</div> <div>3. <math>\frac{35}{3}</math> L</div> <div>4. <math>\frac{28}{3}</math> L</div>                                                                         |
| Q.8  | The value of $\frac{5}{9} + \frac{1}{9} + \frac{3}{18} + \frac{3}{9} - 1 =$                                                                                                                                                                     |
| Ans  | <div>1. <math>-\frac{7}{18}</math></div> <div>2. <math>\frac{3}{18}</math></div> <div>3. <math>\frac{1}{18}</math></div> <div>4. <math>\frac{9}{18}</math></div>                                                                                |
| Q.9  | A train runs at a speed of 92 kmph to cover a distance of 184 km and then at a speed of 102 kmph to cover a distance of 204 km. Find the average speed of the train for the entire distance.                                                    |
| Ans  | <div>1. 92 kmph</div> <div>2. 98 kmph</div> <div>3. 134 kmph</div> <div>4. 97 kmph</div>                                                                                                                                                        |
| Q.10 | Yamini and Zareen together invested ₹37200 in a business. At the end of the year, out of a total profit of ₹5000, Yamini's share was ₹1300. What was the investment of Zareen?                                                                  |
| Ans  | <div>1. ₹26470</div> <div>2. ₹26605</div> <div>3. ₹27528</div> <div>4. ₹28830</div>                                                                                                                                                             |

|      |                                                                                                                                                                                                                          |
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| Q.11 | The average of 7 numbers is 45. If each number is decreased by 4, what will the new average be?                                                                                                                          |
| Ans  | <div>1. 41</div> <div>2. 45</div> <div>3. 7</div> <div>4. 37</div>                                                                                                                                                       |
| Q.12 | Express the following as a vulgar fraction.                                                                                                                                                                              |
| Ans  | <div><math>0.04\overline{3} + 2</math></div> <div>1. <math>2\frac{17}{900}</math></div> <div>2. <math>2\frac{13}{900}</math></div> <div>3. <math>2\frac{13}{300}</math></div> <div>4. <math>2\frac{17}{300}</math></div> |
| Q.13 | Vaishali and Vanya invest in a business in the ratio 35 : 8. If total profit is Rs. 3655, then what is difference between the profit (in Rs.) of Vaishali and Vanya?                                                     |
| Ans  | <div>1. 2195</div> <div>2. 2395</div> <div>3. 2345</div> <div>4. 2295</div>                                                                                                                                              |
| Q.14 | A milk vendor has 40 litres of a 40% milk solution. How many litres of pure water should be added so that the resulting mixture is a 25% milk solution?                                                                  |
| Ans  | <div>1. 25</div> <div>2. 23</div> <div>3. 24</div> <div>4. 20</div>                                                                                                                                                      |
| Q.15 | Bhanu covers 790 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?                                                                                    |
| Ans  | <div>1. 23.95 km/h</div> <div>2. 15.59 km/h</div> <div>3. 19.75 km/h</div> <div>4. 28.05 km/h</div>                                                                                                                      |
| Q.16 | The smallest natural number which is divisible by 18, 5, 81 and 90 is:                                                                                                                                                   |
| Ans  | <div>1. 810</div> <div>2. 797</div> <div>3. 751</div> <div>4. 720</div>                                                                                                                                                  |
| Q.17 | If $x = 3 + \sqrt{6}$ and $y = 3 - \sqrt{6}$ then the value of $x^2 + y^2$ is:                                                                                                                                           |
| Ans  | <div>1. 30</div> <div>2. 36</div> <div>3. 25</div> <div>4. 70</div>                                                                                                                                                      |

**Q.18** If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹62, then what is the principal (in ₹)?

**Ans**      1. 454  
                 2. 450  
                 3. 445  
                 4. 443

**Q.19** The price (per litre) of petrol increases by 60%. By what percent should its consumption be reduced such that the expenditure on it increases by 28% only?

**Ans**      1. 74%  
                 2. 80%  
                 3. 79%  
                 4. 73%

**Q.20** Study the given table and answer the question that follows.  
The given table shows data regarding bats produced by different companies. The companies produce plastic and wooden bats. Information about plastic bats is given as the percentage of the total number of bats produced, and that of wooden bats is given as the ratio of the number of bats of brand X to that of brand Y. Each company produces a total of 25,000 bats.

| Name of the company | Plastic bats (%) | Wooden bats<br>X : Y |
|---------------------|------------------|----------------------|
| A                   | 55.              | 21 : 4               |
| B                   | 70.              | 8 : 7                |
| C                   | 45.              | 6 : 19               |
| D                   | 75.              | 41 : 14              |
| E                   | 60.              | 7 : 15               |
| F                   | 40.              | 5 : 6                |

What is the ratio of wooden bats of brand Y manufactured by company C to the total number of wooden bats manufactured by companies A and F?

**Ans**      1. 870 : 433  
                 2. 430 : 613  
                 3. 125 : 872  
                 4. 209 : 525

**Q.21** The average of 7 numbers is 57. If each number is increased by 6, what will the new average be?

**Ans**      1. 63  
                 2. 69  
                 3. 7  
                 4. 57

**Q.22** Amit sold 171 chairs and had a gain equal to the selling price of 71 chairs. What is his profit percentage?

**Ans**      1. 81%  
                 2. 66%  
                 3. 71%  
                 4. 76%

|      |                                                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.23 | Given that $26^{0.89} = x$ , $26^{0.31} = y$ and $x^z = y^2$ , then the value of z is close to:                                                                                                                                 |
| Ans  | <div>1. 1.33</div> <div>2. 0.7</div> <div>3. 2.47</div> <div>4. -0.41</div>                                                                                                                                                     |
| Q.24 | If the average of three consecutive numbers is 42, find the second smallest of these numbers.                                                                                                                                   |
| Ans  | <div>1. 41</div> <div>2. 43</div> <div>3. 44</div> <div>4. 42</div>                                                                                                                                                             |
| Q.25 | A number when divided by 798 leaves 45 as remainder. If the same number is divided by 21, what will be the remainder?                                                                                                           |
| Ans  | <div>1. 2</div> <div>2. 3</div> <div>3. 4</div> <div>4. 5</div>                                                                                                                                                                 |
| Q.26 | A sphere of radius 3 cm is put into water contained in a cylinder with a base radius of 12 cm. If the sphere is completely immersed in the water, the water level in the cylinder rises by:                                     |
| Ans  | <div>1. <math>\frac{1}{3}</math> cm</div> <div>2. 3 cm</div> <div>3. 4 cm</div> <div>4. <math>\frac{1}{4}</math> cm</div>                                                                                                       |
| Q.27 | A train runs at a speed of 114 kmph to cover a distance of 228 km and then at a speed of 93 kmph to cover a distance of 372 km. Find the average speed of the train for the entire distance.                                    |
| Ans  | <div>1. 100 kmph</div> <div>2. 60 kmph</div> <div>3. 125 kmph</div> <div>4. 113 kmph</div>                                                                                                                                      |
| Q.28 | During sale, Raghav bought a notebook marked for ₹35 at 20% discount and a pen marked for ₹100 at 79% discount. How much (in ₹) did he save due to sale?                                                                        |
| Ans  | <div>1. 83</div> <div>2. 89</div> <div>3. 85</div> <div>4. 86</div>                                                                                                                                                             |
| Q.29 | A shopkeeper sells an item for ₹960.4 after giving two successive discounts of 30% and 80% on its marked price. Had he not given any discount, he would have earned a profit of 40%. What is the cost price (in ₹) of the item? |
| Ans  | <div>1. 4920</div> <div>2. 4900</div> <div>3. 4931</div> <div>4. 4908</div>                                                                                                                                                     |

|      |                                                                                                                                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.30 | Evaluate $124^2$                                                                                                                                                                                                                                                             |
| Ans  | <div>1. 15406</div> <div>2. 15366</div> <div>3. 15376</div> <div>4. 15356</div>                                                                                                                                                                                              |
| Q.31 | The cost of painting a rectangular sheet at the rate of ₹1.5 per square cm is ₹945. If the length of the rectangular sheet is 30 cm, then what is its breadth (in cm)?                                                                                                       |
| Ans  | <div>1. 20</div> <div>2. 21</div> <div>3. 19</div> <div>4. 22</div>                                                                                                                                                                                                          |
| Q.32 | <p>The volume of a conical tent is <math>9240\text{ m}^3</math> and the area of its base is <math>1386\text{ m}^2</math>.</p> <p>What is the length of the canvas required to build the tent if the width of canvas is 3 m?</p> <p>(Use <math>\pi = \frac{22}{7}</math>)</p> |
| Ans  | <div>1. 687 m</div> <div>2. 432 m</div> <div>3. 568 m</div> <div>4. 638 m</div>                                                                                                                                                                                              |
| Q.33 | The population of a village was 130000. It increased by 15% in the first year and increased by 30% in the second year. Its population after two years is _____.                                                                                                              |
| Ans  | <div>1. 149500</div> <div>2. 169000</div> <div>3. 194350</div> <div>4. 188500</div>                                                                                                                                                                                          |
| Q.34 | If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹63, then what is the principal (in ₹)?                                                                                                                                         |
| Ans  | <div>1. 293</div> <div>2. 304</div> <div>3. 300</div> <div>4. 295</div>                                                                                                                                                                                                      |
| Q.35 | A vendor claims to sell wheat at a loss of 25%. But he cheats by using weights that weigh 35% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?                                                                          |
| Ans  | <div>1. 20.31</div> <div>2. 14.41</div> <div>3. 19.85</div> <div>4. 15.38</div>                                                                                                                                                                                              |

Section : General Intelligence and Reasoning

|      |                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.36 | If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3647582, how many digits will appear more than once in the new number thus formed? |
| Ans  | <div>1. 0</div> <div>2. 2</div> <div>3. 1</div> <div>4. 3</div>                                                                                                           |

Q.37 A \$ B means 'A is the sister of B',  
A @ B means 'A is the daughter of B',  
A - B means 'A is the son of B' and  
A \* B means 'A is the father of B'.  
Based on the above information, which of the following means that S is the sister's son of M?

- Ans
- 1. S @ T - E \$ A \* M
  - 2. S \$ T \* E - A @ M
  - 3. S - T \$ E @ A \* M
  - 4. S \* T - E \$ A @ M

Q.38 Select the term from among the given options that can replace the question mark (?) in the following series.

FLA 29 IJE 22 ? OFM 2 RDQ -11

- Ans
- 1. LHI 13
  - 2. GKJ 11
  - 3. LVG 10
  - 4. HGG 12

Q.39 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.



Ans

1.



2.



3.



4.

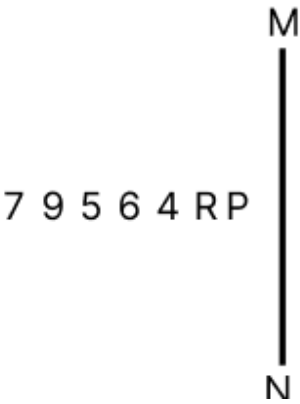


|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.40 | Each letter in the word BEHALF is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be fourth from the left in the new group of letters thus formed?                                                                                                                                                                                       |
| Ans  | <div>1. F</div> <div>2. C</div> <div>3. G</div> <div>4. M</div>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Q.41 | Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?<br>(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)                                                                                                                                                                                                      |
| Ans  | <div>1. ROMG</div> <div>2. VSQK</div> <div>3. AXVP</div> <div>4. BYVQ</div>                                                                                                                                                                                                                                                                                                                                                                                                             |
| Q.42 | <p>In a certain code language,</p> <p>‘A + B’ means ‘A is the daughter of B’,<br/>‘A – B’ means ‘A is the brother of B’,<br/>‘A x B’ means ‘A is the wife of B’ and<br/>‘A ÷ B’ means ‘A is the father of B’.</p> <p>How is W related to Y if ‘W + E x R – T ÷ Y’?</p>                                                                                                                                                                                                                  |
| Ans  | <div>1. Father's brother's daughter</div> <div>2. Father's brother's wife</div> <div>3. Mother's brother's wife</div> <div>4. Mother's brother's daughter</div>                                                                                                                                                                                                                                                                                                                         |
| Q.43 | <p>Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.</p> <p>(Left) L U * P @ D £ A Ω F \$ * N Q &amp; R # Y % C K &amp; M (Right)</p> <p>If all the letters are dropped from the series, which of the following will be sixth from the right?</p>                                                                                                                                                         |
| Ans  | <div>1. &amp;</div> <div>2. %</div> <div>3. \$</div> <div>4. Ω</div>                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Q.44 | <p>This question is based on the following words.</p> <p>YEN ARE FEW GOT</p> <p>In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?</p>                                                                                                                                 |
| Ans  | <div>1. 2</div> <div>2. 3</div> <div>3. 4</div> <div>4. 1</div>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Q.45 | <p>Select the set in which the numbers are related in the same way as are the numbers of the following sets.</p> <p>(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)</p> <p>(27, 46, 19)<br/>(8, 17, 9)</p> |
| Ans  | <div>1. (22, 40, 18)</div> <div>2. (23, 39, 13)</div> <div>3. (18, 43, 22)</div> <div>4. (44, 70, 23)</div>                                                                                                                                                                                                                                                                                                                                                                             |

**Q.46** Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?  
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

**Ans** 1. QI - MR  
2. KC - GM  
3. OG - KP  
4. ME - IN

**Q.47** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans** 1. 9R40279  
2. 9R46207  
3. 9R40207  
4. RP40207

**Q.48** Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.  
(Left) @ 8 \$ 7 & + 2 & % 4 6 \* £ 5 3 Ω 9 # 1 (Right)  
How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

**Ans** 1. 4  
2. 2  
3. 3  
4. 1

**Q.49** A, B, C, D, E, F and G sit around a circular table facing centre. Only two people sit between F and D when counted from the right of F. Only three people sit between B and G when counted from the right of G. D sits to the immediate right of G. A sits to the immediate right of E. How many people sit between A and G when counted from the right of G?

**Ans** 1. 4  
2. 2  
3. 3  
4. 1

**Q.50** Each of the digits in the number 8374516 is arranged in ascending order from left to right. What will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

**Ans** 1. 11  
2. 14  
3. 10  
4. 12

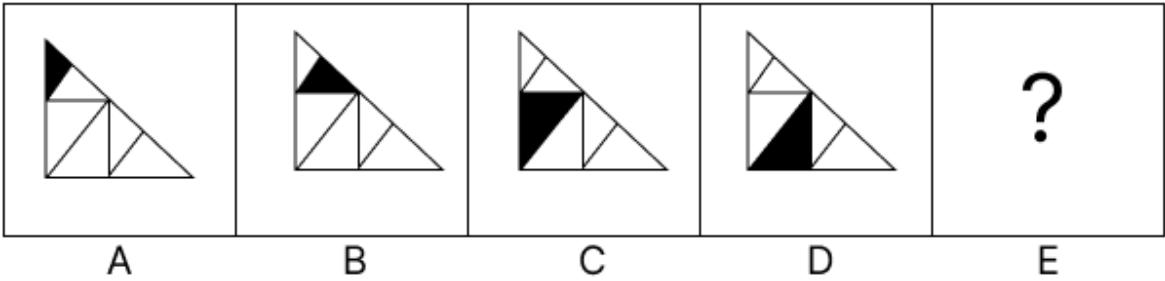
Q.51 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. G is kept immediately above E. F is kept immediately above D. Only A is kept above B. Only two boxes are kept above G. F is not kept at third position from the bottom. How many boxes are kept above F?

- Ans
- 1. 3
  - 2. 5
  - 3. 4
  - 4. 2

Q.52 UVW ranked 21<sup>st</sup> from the top and 64<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans
- 1. 88
  - 2. 84
  - 3. 78
  - 4. 81

Q.53 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



Ans

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

|      |                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.54 | Tushar starts from Point A and drives 15 km towards south. He then takes a right turn, drives 13 km, turns right and drives 19 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified) |
| Ans  | <div><div>1. 3 km to the west</div><div>2. 6 km to the west</div><div>3. 4 km to the west</div><div>4. 5 km to the west</div></div>                                                                                                                                                                                                                                                                            |
| Q.55 | Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?                                                                                                                                                                                                |
|      | # : JLO :: GIL : %                                                                                                                                                                                                                                                                                                                                                                                             |
| Ans  | <div><div>1. # = EGI; % = LNQ</div><div>2. # = FGJ; % = LNQ</div><div>3. # = EGJ; % = LNO</div><div>4. # = EGJ; % = LNQ</div></div>                                                                                                                                                                                                                                                                            |
| Q.56 | What will come in the place of the question mark (?) in the following equation, if '-' and '÷' are interchanged and '×' and '+' are interchanged?                                                                                                                                                                                                                                                              |
|      | 14 + 32 – 8 × 5 ÷ 2 = ?                                                                                                                                                                                                                                                                                                                                                                                        |
| Ans  | <div><div>1. 57</div><div>2. 56</div><div>3. 58</div><div>4. 59</div></div>                                                                                                                                                                                                                                                                                                                                    |
| Q.57 | Based on the English alphabetical order, three of the following four letter-clusters 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.)                                                                                                                                                                                                                                                                                               |
| Ans  | <div><div>1. PRU</div><div>2. LNQ</div><div>3. SUZ</div><div>4. CEH</div></div>                                                                                                                                                                                                                                                                                                                                |
| Q.58 | Which numbers should come in place of the question marks (?) in the same sequence to make the series logically complete?                                                                                                                                                                                                                                                                                       |
|      | 86 90 99 115 140 ? 225 ?                                                                                                                                                                                                                                                                                                                                                                                       |
| Ans  | <div><div>1. 176, 289</div><div>2. 192, 323</div><div>3. 168, 193</div><div>4. 182, 293</div></div>                                                                                                                                                                                                                                                                                                            |
| Q.59 | In a certain code language, ‘love conquers all’ is coded as ‘lk mp jo’ and ‘all or nothing’ is coded as ‘ap tu mp’. How is ‘all’ coded in the given language?                                                                                                                                                                                                                                                  |
| Ans  | <div><div>1. jo</div><div>2. tu</div><div>3. mp</div><div>4. ap</div></div>                                                                                                                                                                                                                                                                                                                                    |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.60 | In a certain code language, 'learn from mistakes' is coded as 'lm tu bp' and 'from here on' is coded as 'mp tw bp'. How is 'from' coded in the given language?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ans  | <div><div>1. lm</div><div>2. tw</div><div>3. tu</div><div>4. bp</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Q.61 | Rohit starts from Point A and drives 5 km towards East. He then takes a left turn, drives 2 km, turns right and drives 4 km. He then takes a right turn and drives 2 km. He takes a final right turn, drives 1 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)                                                                                                                                                                                                                                                                                                                   |
| Ans  | <div><div>1. 5 km towards West</div><div>2. 5 km towards East</div><div>3. 8 km towards North</div><div>4. 8 km towards West</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Q.62 | Navin ranked 19 <sup>th</sup> from the bottom and 18 <sup>th</sup> from the top in his class. How many students are there in his class?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ans  | <div><div>1. 36</div><div>2. 35</div><div>3. 34</div><div>4. 33</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Q.63 | Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?<br># : BDF :: GIK : %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ans  | <div><div>1. # = WYB, % = LNP</div><div>2. # = XYA, % = LNP</div><div>3. # = WYA, % = LNP</div><div>4. # = WYA, % = LNO</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Q.64 | Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?<br>(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)<br>1 - 2 - 4 - 8 ; 9 - 10 - 20 - 40 |
| Ans  | <div><div>1. 19 - 20 - 20 - 30</div><div>2. 6 - 7 - 14 - 30</div><div>3. 14 - 15 - 30 - 40</div><div>4. 4 - 5 - 10 - 20</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Q.65 | 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 conclusion(s) logically follow(s) from the statements.<br><br>Statements:<br>All jeans are trousers.<br>All trousers are pants.<br>No pant is a tie.<br><br>Conclusions:<br>(I) No jeans is a tie.<br>(II) No trouser is a tie.                                                                                                                                                                                                                                                                             |
| Ans  | <div><div>1. Both conclusions (I) and (II) follow.</div><div>2. Neither conclusion (I) nor (II) follows.</div><div>3. Only conclusion (II) follows.</div><div>4. Only conclusion (I) follows.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|      |                                                                                                                                                                                                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.66 | Seven people, Q, R, S, T, U, V and Y, are sitting around a circular table facing the centre of the table. Only one person sits between U and Q when counted from the left of Q. S sits fourth to the left of T. V sits third to the left of R. V sits to the immediate left of S. Y is not an immediate neighbour of V. How many people sit between Y and Q when counted from the right of Y? |
| Ans  | <div>1. Three</div> <div>2. Four</div> <div>3. Two</div> <div>4. One</div>                                                                                                                                                                                                                                                                                                                    |
| Q.67 | Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?                                                                                                                                                                              |
|      | # : PRW :: JLQ : %                                                                                                                                                                                                                                                                                                                                                                            |
| Ans  | <div>1. # = LKY, % = HMJ</div> <div>2. # = RKJ, % = HMJ</div> <div>3. # = LPY, % = HJM</div> <div>4. # = RTY, % = HJO</div>                                                                                                                                                                                                                                                                   |
| Q.68 | In a certain code language, 'EARS' is coded as '5273' and 'DIAL' is coded as '4631'. What is the code for 'A' in the given code language?                                                                                                                                                                                                                                                     |
| Ans  | <div>1. 6</div> <div>2. 3</div> <div>3. 2</div> <div>4. 4</div>                                                                                                                                                                                                                                                                                                                               |
| Q.69 | G, L, O, F and S each has a different age. Only S is elder than G. Only two people is aged between G and O. F is younger than L. Who is the third youngest?                                                                                                                                                                                                                                   |
| Ans  | <div>1. G</div> <div>2. O</div> <div>3. F</div> <div>4. L</div>                                                                                                                                                                                                                                                                                                                               |
| Q.70 | Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.                                                                                                                                                                                                                                                                        |
|      | IEU GHQ ? CNI AQE                                                                                                                                                                                                                                                                                                                                                                             |
| Ans  | <div>1. EKM</div> <div>2. ELN</div> <div>3. E JL</div> <div>4. ELM</div>                                                                                                                                                                                                                                                                                                                      |

Section : General Awareness

|      |                                                                                                                                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.71 | Which of the following statements is FALSE about the Deccan Plateau?                                                                                                                                                                                                                                                             |
| Ans  | <div>1. Mahendragiri is the highest peak in the Western Ghats.</div> <div>2. The Eastern Ghats stretch from the Mahanadi Valley to the Nigiris in the south.</div> <div>3. The Western Ghats are higher than the Eastern Ghats.</div> <div>4. The height of the Western Ghats progressively increases from north to south.</div> |
| Q.72 | In which of the following ways can the utility be expressed in cardinal utility analysis?                                                                                                                                                                                                                                        |
| Ans  | <div>1. In quality</div> <div>2. In numbers</div> <div>3. In rank</div> <div>4. In order</div>                                                                                                                                                                                                                                   |

|      |                                                                                                                                                                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.73 | Which of the following is NOT one of the new criminal laws introduced in 2024?                                                                                                                                                                                                                                                                                    |
| Ans  | <div><div>1. Bharatiya Nagarik Suraksha Sanhita (BNSS)</div><div>2. Indian Penal Code (IPC)</div><div>3. Bharatiya Nyaya Sanhita (BNS)</div><div>4. Bharatiya Sakshya Adhinyam (BSA)</div></div>                                                                                                                                                                  |
| Q.74 | In June 2024, which of the following portfolios was allotted to Anitha Vangalapudi in the Andhra Pradesh Cabinet?                                                                                                                                                                                                                                                 |
| Ans  | <div><div>1. Minister of Panchayat Raj and Rural Development of Andhra Pradesh</div><div>2. Minister of Information Technology and Communication of Andhra Pradesh</div><div>3. Home Minister of Andhra Pradesh</div><div>4. Deputy Chief Minister of Andhra Pradesh</div></div>                                                                                  |
| Q.75 | In which of the following years was the National Commission for Women established?                                                                                                                                                                                                                                                                                |
| Ans  | <div><div>1. 1992</div><div>2. 1991</div><div>3. 1985</div><div>4. 2004</div></div>                                                                                                                                                                                                                                                                               |
| Q.76 | Who among the following was a classical Hindustani singer?                                                                                                                                                                                                                                                                                                        |
| Ans  | <div><div>1. Begum Akhtar</div><div>2. TK Iyengar</div><div>3. V Sheshanna</div><div>4. MS Subbulakshmi</div></div>                                                                                                                                                                                                                                               |
| Q.77 | Which of the following was the original name of Sher Shah Suri, the founder of Suri dynasty?                                                                                                                                                                                                                                                                      |
| Ans  | <div><div>1. Adham Khan</div><div>2. Ulugh Khan</div><div>3. Murtaza Khan</div><div>4. Farid Khan</div></div>                                                                                                                                                                                                                                                     |
| Q.78 | Which of the following is the correct function of marketed surplus?                                                                                                                                                                                                                                                                                               |
| Ans  | <div><div>1. Marketed Surplus = Total farm produce - Previous years stock in the market</div><div>2. Marketed Surplus = Total supply of the market - Total demand</div><div>3. Marketed Surplus = Total demand in the market - Total supply</div><div>4. Marketed Surplus = Total farm output produced by the farmer - Own consumption of farm output</div></div> |
| Q.79 | Where was the joint bilateral training 'Exercise Harimau Shakti 2023' conducted?                                                                                                                                                                                                                                                                                  |
| Ans  | <div><div>1. New Delhi, India</div><div>2. Kuala Lumpur, Malaysia</div><div>3. Umroi Cantonment, India</div><div>4. Kota Kinabalu, Malaysia</div></div>                                                                                                                                                                                                           |
| Q.80 | Who among the following reinterpreted verses from the Koran to argue for women's education?                                                                                                                                                                                                                                                                       |
| Ans  | <div><div>1. Begum Anis Kidwai</div><div>2. Mumtaz Ali</div><div>3. Baji Jamalunnisa</div><div>4. Bibi Amtus Salam</div></div>                                                                                                                                                                                                                                    |

**Q.81** The Constitution ensures the security of the tenure of the Chief Election Commissioner and Election Commissioners. They are appointed for \_\_\_\_\_ years term or continue till the age of 65, whichever is earlier.

**Ans** 1. 4  
2. 5  
3. 6  
4. 10

**Q.82 Which of the following ports is NOT correctly linked to its location?**

**Ans**

1. Kochi Port - Kerala
2. Tuticorin Port - Tamil Nadu
3. Mormugao Port - Goa
4. Visakhapatnam Port - Telangana

**Q.83 Which of the following musical forms is intimately related to classical Carnatic music?**

**Ans**

1. Firdost
2. Gitam
3. Wanvun
4. Bhand Pather

**Q.84** In February 2024, Genome India Project was completed. Which of the following statements is NOT true about Genome India Project?

**Ans**

1. It was initiated in 2020.
2. The aim was to build a reference genome and study genetic diversity among Indians.
3. 1 million genome samples were to be collected across the country from citizens of India.
4. The project was funded and coordinated by the Department of Biotechnology, Govt. of India.

Q.85 Match the following correctly.

|    |           |    |                   |
|----|-----------|----|-------------------|
|    | Set-I     |    | Set-II            |
| a. | Panini    | 1. | Maalvikagnimitram |
| b. | Hala      | 2. | Mahabhashya       |
| c. | Kalidas   | 3. | Ashtadhyayi       |
| d. | Patanjali | 4. | Gaathasaptshati   |

**Ans**

1. a - 4; b - 3; c - 2; d - 1
2. a - 2; b - 3; c - 4; d - 1
3. a - 3; b - 4; c - 2; d - 1
4. a - 3; b - 4; c - 1; d - 2

**Q.86** In January 2024, India had decided to formally join the Square Kilometer Array (SKA) project, an international scientific collaboration working to build the world's largest \_\_\_\_\_.

**Ans**

1. radio telescope
2. space station
3. particle accelerator
4. optical telescope

**Q.87 Who were India's flag-bearers at the Paris 2024 Paralympics closing ceremony?**

**Ans**

1. Avani Lekhara and Nishad Kumar
2. Manish Narwal and Yogesh Kathuniya
3. Bhagyashree Jadhav and Sumit Antil
4. Harvinder Singh and Preethi Pal

|             |                                                                                                                                                                                                                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Q.88</b> | <b>An optical instrument used in a system of prisms, lenses or mirrors to reflect images through a tube is called:</b>                                                                                                                                                                                                                   |
| <b>Ans</b>  | <div><div>1. kaleidoscope</div><div>2. telescope</div><div>3. periscope</div><div>4. binocular</div></div>                                                                                                                                                                                                                               |
| <b>Q.89</b> | <b>Joint military exercise ‘Harimau Shakti-2022’ commenced on 28<sup>th</sup> November, which is an annual training event between the Indian Army and which of the following armies?</b>                                                                                                                                                 |
| <b>Ans</b>  | <div><div>1. Indonesia</div><div>2. Malaysia</div><div>3. Japan</div><div>4. Singapore</div></div>                                                                                                                                                                                                                                       |
| <b>Q.90</b> | <b>What significant change was implemented in India’s New Economic Policy of 1991 to expand privatisation?</b>                                                                                                                                                                                                                           |
| <b>Ans</b>  | <div><div>1. Centralising government control over key industries</div><div>2. Increasing the number of industries reserved for public sector control</div><div>3. Reducing the list of industries reserved for public sector control</div><div>4. Establishing more Public Sector Undertakings (PSUs) across various sectors</div></div> |
| <b>Q.91</b> | <b>A nutrient which acts as a cushion to the vital organs and protects them from shocks and external injuries is:</b>                                                                                                                                                                                                                    |
| <b>Ans</b>  | <div><div>1. protein</div><div>2. vitamin</div><div>3. fat</div><div>4. carbohydrate</div></div>                                                                                                                                                                                                                                         |
| <b>Q.92</b> | <b>In which of the following years was the Ethics Committee in the Rajya Sabha constituted?</b>                                                                                                                                                                                                                                          |
| <b>Ans</b>  | <div><div>1. 1999</div><div>2. 2000</div><div>3. 1997</div><div>4. 1995</div></div>                                                                                                                                                                                                                                                      |
| <b>Q.93</b> | <b>Which of the following has built the Atal Tunnel?</b>                                                                                                                                                                                                                                                                                 |
| <b>Ans</b>  | <div><div>1. Indian Railways</div><div>2. Border Roads Organisation</div><div>3. Pradhan Mantri Gram Sadak Yojana</div><div>4. National Highways Authority of India (NHAI)</div></div>                                                                                                                                                   |
| <b>Q.94</b> | <b>The stone used for the construction of the Basilica of Bom Jesus in Goa was brought from which of the following places?</b>                                                                                                                                                                                                           |
| <b>Ans</b>  | <div><div>1. Bassein</div><div>2. Hamirpur</div><div>3. Gaya</div><div>4. Jaipur</div></div>                                                                                                                                                                                                                                             |
| <b>Q.95</b> | <b>Name the main method used for thickening sauces and in the production of bread and pastries.</b>                                                                                                                                                                                                                                      |
| <b>Ans</b>  | <div><div>1. Gelatinisation</div><div>2. Retrogradation</div><div>3. Caramelisation</div><div>4. Dextrinisation</div></div>                                                                                                                                                                                                              |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q.96  | The KAZA 2024, Heads of State inaugural Summit by Members of the five-nation Kavango-Zambezi Trans-Frontier Conservation Area (KAZA-TFCA) was held in which month at Livingstone, Zambia?                                                                                                                                                                                                                                                                                                   |
| Ans   | <div><div>1. July 2024</div><div>2. April 2024</div><div>3. May 2024</div><div>4. August 2024</div></div>                                                                                                                                                                                                                                                                                                                                                                                   |
| Q.97  | Which of the following is the correct definition of jobless growth?                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ans   | <div><div>1. It is an economic phenomenon in which an economy experiences decreasing level of growth.</div><div>2. It is an economic phenomenon in which an economy experiences decreasing level of employment.</div><div>3. It is an economic phenomenon in which an economy experiences low level of employment in a relative term.</div><div>4. It is an economic phenomenon in which an economy experiences growth while maintaining or decreasing its level of employment.</div></div> |
| Q.98  | Which of the following types of forests has trees that are mainly scattered with long roots and succulent stems?                                                                                                                                                                                                                                                                                                                                                                            |
| Ans   | <div><div>1. Montane Forests</div><div>2. Mangrove Forests</div><div>3. Tropical Deciduous Forests</div><div>4. Tropical Thorn Forests and Scrubs</div></div>                                                                                                                                                                                                                                                                                                                               |
| Q.99  | In which of the following years was the Satya Shodhak Samaj founded?                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Ans   | <div><div>1. 1873</div><div>2. 1885</div><div>3. 1794</div><div>4. 1776</div></div>                                                                                                                                                                                                                                                                                                                                                                                                         |
| Q.100 | _____ is a natural source of acetic acid.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ans   | <div><div>1. Orange</div><div>2. Tamarind</div><div>3. Vinegar</div><div>4. Tomato</div></div>                                                                                                                                                                                                                                                                                                                                                                                              |
| Q.101 | Which of the following census years reported the highest sex ratio in India?                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ans   | <div><div>1. 2011</div><div>2. 1991</div><div>3. 1951</div><div>4. 1901</div></div>                                                                                                                                                                                                                                                                                                                                                                                                         |
| Q.102 | Which of the following river systems is responsible for the formation of the Sundarbans delta?                                                                                                                                                                                                                                                                                                                                                                                              |
| Ans   | <div><div>1. Cauvery</div><div>2. Godavari</div><div>3. Ganga-Brahmaputra-Meghna</div><div>4. Sindhu</div></div>                                                                                                                                                                                                                                                                                                                                                                            |
| Q.103 | The 130 <sup>th</sup> birth anniversary of Satyendra Nath Bose was observed on 1 January 2024. He was a renowned _____.                                                                                                                                                                                                                                                                                                                                                                     |
| Ans   | <div><div>1. physicist</div><div>2. botanist</div><div>3. zoologist</div><div>4. literary</div></div>                                                                                                                                                                                                                                                                                                                                                                                       |

|              |                                                                                                                                                                                                                                                                                           |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Q.104</b> | <b>The right-hand rule of induced current was given by:</b>                                                                                                                                                                                                                               |
| <b>Ans</b>   | <div><div>1. Fleming</div><div>2. Faraday</div><div>3. Oersted</div><div>4. Ampere</div></div>                                                                                                                                                                                            |
| <b>Q.105</b> | <b>Which of the following methods is most commonly used nowadays to determine nitrogen and protein content in foods?</b>                                                                                                                                                                  |
| <b>Ans</b>   | <div><div>1. Nessler's method</div><div>2. Paradkar method</div><div>3. Barfoed method</div><div>4. Kjeldahl method</div></div>                                                                                                                                                           |
| <b>Q.106</b> | <b>Who among the following wrote the autobiography 'Ardhakathanak'?</b>                                                                                                                                                                                                                   |
| <b>Ans</b>   | <div><div>1. Narmad</div><div>2. Rassundari Devi</div><div>3. Valmiki</div><div>4. Banarasidas</div></div>                                                                                                                                                                                |
| <b>Q.107</b> | <b>Who among the following was NOT associated with the Hindustan Republican Association (H.R.A.)?</b>                                                                                                                                                                                     |
| <b>Ans</b>   | <div><div>1. Subhash Chandra Bose</div><div>2. Sachindra Nath Bakshi</div><div>3. Ashfaqulla Khan</div><div>4. Ram Prasad Bismil</div></div>                                                                                                                                              |
| <b>Q.108</b> | <b>How many subjects are there in the 'Union List' as of May 2024?</b>                                                                                                                                                                                                                    |
| <b>Ans</b>   | <div><div>1. 97 subjects</div><div>2. 100 subjects</div><div>3. 66 subjects</div><div>4. 98 subjects</div></div>                                                                                                                                                                          |
| <b>Q.109</b> | <b>Which of the following Acts regulates the acquisition of Indian Citizenship?</b>                                                                                                                                                                                                       |
| <b>Ans</b>   | <div><div>1. Indian Citizenship Act, 1955</div><div>2. Indian Citizenship Act, 1960</div><div>3. Indian Citizenship Act, 1948</div><div>4. Indian Citizenship Act, 1947</div></div>                                                                                                       |
| <b>Q.110</b> | <b>How do rural development programmes like the Self-Help Group (SHG) initiative contribute to gender equality in rural India?</b>                                                                                                                                                        |
| <b>Ans</b>   | <div><div>1. Solely by improving agricultural productivity</div><div>2. Primarily through educational programmes</div><div>3. By enhancing women's access to finance, leadership roles and decision-making</div><div>4. By providing women with employment opportunities only</div></div> |
| <b>Q.111</b> | <b>Who became the first Indian woman to win two gold medals at the Paralympic Games after winning a gold medal at Paris Paralympic Games 2024?</b>                                                                                                                                        |
| <b>Ans</b>   | <div><div>1. Rubina Francis</div><div>2. Simran Sharma</div><div>3. Avani Lekhara</div><div>4. Deepthi Jeevanji</div></div>                                                                                                                                                               |

|       |                                                                                                                                                                                                                                                             |
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| Q.112 | Which of the following was the strength of the Judges of Supreme Court of India after the commencement of the Constitution in 1950?                                                                                                                         |
| Ans   | <div><div>1. 6</div><div>2. 12</div><div>3. 10</div><div>4. 8</div></div>                                                                                                                                                                                   |
| Q.113 | Which of the following issues has been faced by India since independence?                                                                                                                                                                                   |
| Ans   | <div><div>1. Poverty</div><div>2. Globalisation</div><div>3. Literacy</div><div>4. Agriculture productivity</div></div>                                                                                                                                     |
| Q.114 | Which of the following kings of the Vijayanagara Empire assumed the title of Yavanarajya Sthapanacharya?                                                                                                                                                    |
| Ans   | <div><div>1. Achyuta Deva Raya</div><div>2. Krishnadevaraya</div><div>3. Sadasiva Raya</div><div>4. Rama Raya</div></div>                                                                                                                                   |
| Q.115 | Which of the following is NOT provided in Part IV A (Fundamental Duties) of the Indian Constitution?                                                                                                                                                        |
| Ans   | <div><div>1. To respect our parents and teachers</div><div>2. To respect the National Flag</div><div>3. To promote spirit of brotherhood amongst all people of India</div><div>4. To preserve the rich heritage of our composite culture</div></div>        |
| Q.116 | Which of the following Union Territories of India is having the highest decadal growth rate of population as per 2011 census?                                                                                                                               |
| Ans   | <div><div>1. Chandigarh</div><div>2. Puducherry</div><div>3. Lakshadweep</div><div>4. Dadar and Nagar Haveli</div></div>                                                                                                                                    |
| Q.117 | Arrange the following rulers of the Pala dynasty in the chronological order.                                                                                                                                                                                |
| Ans   | <div><div>1. Dharampal &lt; Devpal &lt; Mahipal &lt; Naypal</div><div>2. Mahipal &lt; Dharampal &lt; Naypal &lt; Devpal</div><div>3. Devpal &lt; Dharampal &lt; Mahipal &lt; Naypal</div><div>4. Mahipal &lt; Dharampal &lt; Devpal &lt; Naypal</div></div> |
| Q.118 | N Chandrababu Naidu, who took oath as Andhra Pradesh Chief Minister on 12 June 2024, belongs to which of the following political parties?                                                                                                                   |
| Ans   | <div><div>1. Bhartiya Janata Party (BJP)</div><div>2. Jana Sena Party (JSP)</div><div>3. Telugu Desam Party (TDP)</div><div>4. YSR Congress Party (YSRCP)</div></div>                                                                                       |
| Q.119 | The group of North Atlantic Treaty Organization (NATO) has how many member countries, as on 30 September 2024?                                                                                                                                              |
| Ans   | <div><div>1. 32</div><div>2. 12</div><div>3. 21</div><div>4. 39</div></div>                                                                                                                                                                                 |

Q.120 In which of the following years did the government sell its stake in IRCON International Limited?

- Ans
1. 2015

2. 2018

3. 2021

4. 2023