



## रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन ०६/२०२४ - एन टी पी सी पूर्व स्नातक स्तर - CEN - 06/2024 - NTPC Under Graduate Level



Test Date	12/08/2025
Test Time	4:30 PM - 6:00 PM
Subject	RRB NTPC Under Graduate CBT I

\* 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 : General Awareness

Q.1 As of July 2025, how many Indian States have a bicameral legislature (i.e. both, a Legislative Assembly and a Legislative Council)?

- Ans
- ☒ 1. Eight
  - ☒ 2. Six
  - ☒ 3. Seven
  - ☒ 4. Five

Q.2 In Indian State governments, to whom is the State Council of Ministers collectively responsible?

- Ans
- ☒ 1. The Governor of the State
  - ☒ 2. Council of States
  - ☒ 3. State Legislative Assembly
  - ☒ 4. Chief Justice of the concerned State

Q.3 Which initiative is intended to encourage domestic manufacturing and attract foreign investment?

- Ans
- ☒ 1. Digital India
  - ☒ 2. Make in India
  - ☒ 3. Startup India
  - ☒ 4. Skill India

Q.4 The Red Fort in Delhi was constructed during the reign of which of the following Mughal emperors?

- Ans
- ☒ 1. Babur
  - ☒ 2. Shah Jahan
  - ☒ 3. Aurangzeb
  - ☒ 4. Akbar

Q.5 In March 2025, \_\_\_\_\_ became the 28<sup>th</sup> legislature to join the National e-Vidhan Application platform.

- Ans
- ☒ 1. Odisha
  - ☒ 2. Delhi
  - ☒ 3. Sikkim
  - ☒ 4. Jharkhand

**Q.6 Which revolutionary along with Batukeshwar Dutt threw bombs in the Central Assembly in 1929?**

- Ans**
- ☒ 1. Bhagat Singh
  - ☐ 2. Chandrashekhar Azad
  - ☐ 3. Ashfaqulla Khan
  - ☐ 4. Rajguru

**Q.7 Who made history as the first woman, the youngest person, and the first African to be elected President of the International Olympic Committee (IOC) in 2025?**

- Ans**
- ☒ 1. Kirsty Coventry
  - ☐ 2. Tegla Loroupe
  - ☐ 3. Fatma Samoura
  - ☐ 4. Nawal El Moutawakel

**Q.8 Which Gupta emperor was known as the 'Napoleon of India' due to his military conquests and strategic warfare?**

- Ans**
- ☐ 1. Chandragupta I
  - ☒ 2. Samudragupta
  - ☐ 3. Kumaragupta
  - ☐ 4. Skandagupta

**Q.9 Which country led the 2024 Global Gender Gap Report by closing over 90% of its gender gap?**

- Ans**
- ☐ 1. Finland
  - ☐ 2. Norway
  - ☒ 3. Iceland
  - ☐ 4. Sweden

**Q.10 Although a colloid appears homogeneous, it is actually a \_\_\_\_\_.**

- Ans**
- ☐ 1. suspension
  - ☐ 2. true solution
  - ☐ 3. homogeneous mixture
  - ☒ 4. heterogeneous mixture

**Q.11 What happens when you delete a file or folder using the Delete key?**

- Ans**
- ☐ 1. The file is copied to another folder.
  - ☐ 2. The file is renamed automatically.
  - ☒ 3. The file is sent to the Recycle Bin.
  - ☐ 4. The file is permanently deleted without warning.

**Q.12 Which of the following pairs of neighbouring countries are landlocked and share only land borders with India?**

- Ans**
- ☐ 1. Bangladesh and Myanmar
  - ☒ 2. Nepal and Bhutan
  - ☐ 3. Pakistan and China
  - ☐ 4. Sri Lanka and Maldives

**Q.13 Which of the following represents the longitudinal extent of India?**

- Ans**
- ☒ 1. 68°7'E and 97°25'E
  - ☐ 2. 56°7'E and 87°25'E
  - ☐ 3. 58°7'E and 94°25'E
  - ☐ 4. 54°7'E and 77°25'E

**Q.14** Who among the following was appointed as the new Chairman of the Union Public Service Commission (UPSC) in May 2025?

- Ans**
- ☐ 1. Shri Rajesh Verma
  - ☐ 2. Dr. Anil Kumar
  - ☒ 3. Dr. Ajay Kumar
  - ☐ 4. Ms. Priya Sharma

**Q.15** Who among the following wrote the novel Godaan, which is considered a classic of modern Hindi literature?

- Ans**
- ☐ 1. Bankim Chandra Chatterjee
  - ☒ 2. Munshi Premchand
  - ☐ 3. RK Narayan
  - ☐ 4. Rabindranath Tagore

**Q.16** Which Ministry co-organised the 9<sup>th</sup> edition of the Global Technology Summit (GTS) with Carnegie India in April 2025 in New Delhi?

- Ans**
- ☒ 1. Ministry of External Affairs
  - ☐ 2. Ministry of Information and Broadcasting
  - ☐ 3. Ministry of Communications
  - ☐ 4. Ministry of Electronics and Information Technology

**Q.17** Which tool in Windows helps one manage and organize files and folders?

- Ans**
- ☐ 1. Paint
  - ☐ 2. Recycle Bin
  - ☒ 3. File Explorer
  - ☐ 4. Task Manager

**Q.18** Which of the following indigenously developed underwater naval mines was successfully tested by DRDO and the Indian Navy in May 2025?

- Ans**
- ☒ 1. Multi-Influence Ground Mine
  - ☐ 2. Barak Mine
  - ☐ 3. Sea Dragon
  - ☐ 4. Varunastra

**Q.19** In April 2025, which startup, selected by the Department of Science and Technology (DST) under the National Quantum Mission (NQM), has launched the world's first platform — QShield — that enables seamless cryptography management?

- Ans**
- ☐ 1. AMu Labs
  - ☐ 2. SST Labs
  - ☐ 3. CCS Labs
  - ☒ 4. QNu Labs

**Q.20** Which postulate of Dalton's atomic theory reflects the Law of Conservation of Mass?

- Ans**
- ☒ 1. Atoms cannot be created or destroyed in a chemical reaction.
  - ☐ 2. Atoms of different elements have different masses and properties.
  - ☐ 3. Atoms combine in simple whole-number ratios to form compounds.
  - ☐ 4. All matter is made up of indivisible particles called atoms.

**Q.21** What was the main aim of TRYSEM (Training for Rural Youth for Self-Employment)?

- Ans**
- ☐ 1. Offering free education in rural areas
  - ☒ 2. Upgrading skills of rural youth to tackle unemployment
  - ☐ 3. Providing loans to farmers
  - ☐ 4. Building infrastructure in villages

**Q.22 Which of these was NOT a cause of popular resentment against British rule before 1857?**

- Ans**
- ☐ 1. Low wages
  - ☐ 2. High taxes
  - ☒ 3. Religious tolerance
  - ☐ 4. Racial discrimination

**Q.23 Padma Vibhushan awardee of 2025, Dr. Lakshminarayana Subramaniam is a famous musician of which instrument?**

- Ans**
- ☐ 1. Shehnai
  - ☒ 2. Violin
  - ☐ 3. Sitar
  - ☐ 4. Flute

**Q.24 The title Devaputra, used by the Kushana rulers, implies which of the following?**

- Ans**
- ☐ 1. Hereditary monarchy
  - ☒ 2. Divine origin or claim to divinity
  - ☐ 3. Heir to Mauryan traditions
  - ☐ 4. Protector of Dharma

**Q.25 Who is the director of the film 'Laapataa Ladies', which won Best Picture at the 2025 IIFA Awards?**

- Ans**
- ☒ 1. Kiran Rao
  - ☐ 2. Yash Chopra
  - ☐ 3. Farhan Akhtar
  - ☐ 4. Karan Johar

**Q.26 Which of the following parts of the plant is primarily responsible for sexual reproduction in angiosperms?**

- Ans**
- ☐ 1. Stem
  - ☐ 2. Leaf
  - ☒ 3. Flower
  - ☐ 4. Root

**Q.27 The Hazira–Vijaipur–Jagdishpur (HVJ) pipeline is mainly used to transport:**

- Ans**
- ☒ 1. natural gas
  - ☐ 2. petrol
  - ☐ 3. crude oil
  - ☐ 4. kerosene

**Q.28 Which Indian state shares its border with China, Nepal and Bhutan?**

- Ans**
- ☐ 1. Himachal Pradesh
  - ☐ 2. Uttarakhand
  - ☐ 3. Arunachal Pradesh
  - ☒ 4. Sikkim

**Q.29 What was the main aim of IRDP (Integrated Rural Development Programme) ?**

- Ans**
- ☐ 1. To provide free food to rural families
  - ☐ 2. To promote urban employment
  - ☒ 3. To assist poor rural families in acquiring assets or skills for self-employment
  - ☐ 4. To build schools in villages

**Q.30 Which of these is a part of solid waste management infrastructure?**

- Ans**
- ☐ 1. Drainage tanks
  - ☒ 2. Garbage collection and disposal
  - ☐ 3. Sewage pipelines
  - ☐ 4. Electricity transmission lines

**Q.31 The Wahabi Movement was started by Syed Ahmad, of \_\_\_\_.**

- Ans**
- ☐ 1. Hyderabad
  - ☐ 2. Amritsar
  - ☐ 3. Jhansi
  - ☒ 4. Rae Bareli

**Q.32 Which Amendment extended the reservation of seats for SCs and STs in the legislatures for another 10 years till 2030?**

- Ans**
- ☐ 1. 105<sup>th</sup> Amendment
  - ☐ 2. 101<sup>st</sup> Amendment
  - ☒ 3. 104<sup>th</sup> Amendment
  - ☐ 4. 103<sup>rd</sup> Amendment

**Q.33 The new Indian Ports Bill 2025 seeks to repeal which Indian Act?**

- Ans**
- ☐ 1. The Indian Bills of Lading Act, 1856
  - ☐ 2. The Major Port Authorities Act, 2021
  - ☐ 3. The Calcutta Port (Pilotage) Act, 1948
  - ☒ 4. The Indian Ports Act, 1908

**Q.34 The Eleventh Schedule of the Indian Constitution relates to which of the following?**

- Ans**
- ☐ 1. Functions of municipalities
  - ☐ 2. State list subjects
  - ☒ 3. Powers and responsibilities of Panchayats
  - ☐ 4. Anti-defection law

**Q.35 Privatisation under the 1991 reforms primarily involved:**

- Ans**
- ☐ 1. increasing agricultural subsidies
  - ☐ 2. reducing bank interest rates
  - ☐ 3. nationalising private companies
  - ☒ 4. selling government shares in public sector enterprises

**Q.36 The 'Montreal Protocol' was signed to control the emission of \_\_\_\_.**

- Ans**
- ☒ 1. chlorofluorocarbons
  - ☐ 2. carbon dioxide
  - ☐ 3. methane
  - ☐ 4. sulphur dioxide

**Q.37 Which of the following organisations collaborated with the Indian Navy for the VLSRSAM launch in March 2025?**

- Ans**
- ☐ 1. Hindustan Aeronautics Limited
  - ☐ 2. Bharat Electronics Limited
  - ☐ 3. Bhabha Atomic Research Centre
  - ☒ 4. Defence Research and Development Organisation

**Q.38** What key principle did the Supreme Court emphasise in the 2024 Property Owners Association v State of Maharashtra case?

- Ans**
- ☒ 1. Only scarce or vital resources justify state takeover.
  - ☐ 2. Public trust doctrine applies to all private assets.
  - ☐ 3. State can acquire all private properties at will.
  - ☐ 4. Government power overrides individual property rights.

**Q.39** Which of the following schemes aims to empower adolescent girls?

- Ans**
- ☐ 1. NRHM
  - ☒ 2. Kishori Shakti Yojana
  - ☐ 3. National Nutrition Mission
  - ☐ 4. Janani Suraksha Yojana

**Q.40** Overseas Citizen of India (OCI) holders are:

- Ans**
- ☐ 1. Persons entitled to hold constitutional posts
  - ☐ 2. Indian citizens with voting rights
  - ☐ 3. Dual citizens of India and another country
  - ☒ 4. Foreign nationals with special privileges

Section : Mathematics

**Q.1** Simplify:  $4\left(\left(\frac{6}{4}\right)x^2 - 25x + 12\right) - 6(x^2 + 5x - 13)$ .

- Ans**
- ☒ 1.  $-130x + 126$
  - ☐ 2.  $130x + 126$
  - ☐ 3.  $-130x - 126$
  - ☐ 4.  $130x - 126$

**Q.2** Which of the following numbers divides 386937355?

- Ans**
- ☐ 1. 3
  - ☐ 2. 15
  - ☒ 3. 5
  - ☐ 4. 14

**Q.3** M and N start a business. M invests ₹79,000 more than N for 7 months and N invests for 6 months. M's share is ₹745 more than that of N, out of a total profit of ₹6,705. Find the capital contributed by M.

- Ans**
- ☐ 1. ₹12,00,000
  - ☐ 2. ₹11,80,000
  - ☐ 3. ₹12,05,000
  - ☒ 4. ₹11,85,000

**Q.4** Find the value of  $[682 \div \{20 + 2 \times (5 - 4)\}]$ .

- Ans**
- ☒ 1. 31
  - ☐ 2. 26
  - ☐ 3. 28
  - ☐ 4. 34

**Q.5** A book seller gives a 4% discount on the marked price and gives one book free during vacation for buying every pack of 15 books of the same cost, and thus gains 35%. By what percentage is the marked price higher than the cost price?

- Ans**
- ☐ 1. 35%
  - ☐ 2. 25%
  - ☐ 3. 40%
  - ☒ 4. 50%

**Q.6** 83 mirrors were purchased for ₹83, and 22 mirrors broke in transit. The trader sold the remaining mirrors at ₹3.60 each. Find his profit.

- Ans**
- ☐ 1. ₹144.50
  - ☒ 2. ₹136.60
  - ☐ 3. ₹132.40
  - ☐ 4. ₹127.70

**Q.7** The population of a district is 362000, out of which 181000 are males. 47% of the population is literate. If 35% males are literate, then what percentage of females are literate?

- Ans**
- ☐ 1. 61%
  - ☐ 2. 58%
  - ☐ 3. 62%
  - ☒ 4. 59%

**Q.8** The average runs scored by a batsman in 23 matches is 40. In the next 10 matches, the batsman scored an average of 16 runs. Find his average runs scored (rounded off to two decimals) in all the 33 matches.

- Ans**
- ☐ 1. 33.73
  - ☐ 2. 34.73
  - ☐ 3. 31.73
  - ☒ 4. 32.73

**Q.9** The average price of three items of furniture is ₹5,325. If their prices are in the ratio 3 : 5 : 7, the price of the cheapest item (in ₹) is:

- Ans**
- ☐ 1. 7,455
  - ☐ 2. 1,065
  - ☒ 3. 3,195
  - ☐ 4. 5,325

**Q.10** If  $\sec\theta + \tan\theta = s$ , then find the value of  $\frac{s^2 - 1}{s^2 + 1}$ .

- Ans**
- ☐ 1.  $\cot\theta$
  - ☐ 2.  $\sec\theta$
  - ☒ 3.  $\sin\theta$
  - ☐ 4.  $\operatorname{cosec}\theta$

**Q.11** ABCD is a quadrilateral in which  $AB \parallel DC$ , and E and F are the mid points of the diagonals AC and BD, respectively. If  $AB = 12$  cm,  $BC = 40$  cm,  $DC = 30$  cm, and  $AD = 45$  cm, then what is the length (in cm) of EF?

- Ans**
- ☒ 1. 9
  - ☐ 2. 8
  - ☐ 3. 5
  - ☐ 4. 13

Q.12 The sides of a triangle are 28 cm, 45 cm, and 53 cm. What is its area? (in  $\text{cm}^2$ )

- Ans
- ☐ 1. 665
  - ☒ 2. 630
  - ☐ 3. 664
  - ☐ 4. 658

Q.13 Rishi travels 198 km at 66 km/hr, the next 584 km at 73 km/hr and the next 656 km at 82 km/hr. What is his average speed (in km/hr) for the whole journey? (Round off your answer to two decimal places)

- Ans
- ☐ 1. 82.07
  - ☒ 2. 75.68
  - ☐ 3. 82.71
  - ☐ 4. 79.25

Q.14 The LCM of the numbers 6.3 and 0.07 is:

- Ans
- ☐ 1. 63
  - ☐ 2. 0.63
  - ☒ 3. 6.3
  - ☐ 4. 0.063

Q.15 The HCF and LCM of two numbers are 11 and 330, respectively. If one of the numbers is 110, find the other one.

- Ans
- ☒ 1. 33
  - ☐ 2. 90
  - ☐ 3. 75
  - ☐ 4. 72

Q.16 A sum of ₹10,000 amounts to ₹12,321 in 2 years at a certain rate of interest per annum, compounded annually. The rate of interest per annum is:

- Ans
- ☐ 1. 14%
  - ☐ 2. 15%
  - ☒ 3. 11%
  - ☐ 4. 10%

Q.17 *By how much is 65% of 75 greater than  $\frac{2}{5}$  of 45?*

- Ans
- ☐ 1. 27.75
  - ☒ 2. 30.75
  - ☐ 3. 28.75
  - ☐ 4. 24.75

Q.18 The cost of 6 pens and 19 pencils is ₹275. If the cost of a pen decreases by ₹7 and the cost of a pencil increases by ₹7, then the cost of 15 pens and 4 pencils is ₹132. What is the original cost of 6 pens and 2 pencils?

- Ans
- ☒ 1. ₹88
  - ☐ 2. ₹92
  - ☐ 3. ₹89
  - ☐ 4. ₹90



Q.19 Evaluate  $145^2$ .

Ans ☐ 1. 20975

☒ 2. 21025

☐ 3. 21075

☐ 4. 21005

Q.20 If 2 times the mother's age is 26 years more than 4 times her daughter's age, and 3 times the daughter's age is 7 years less than the mother's age, then what is the difference (in years) between the ages of the mother and the daughter?

Ans ☐ 1. 21

☐ 2. 24

☒ 3. 19

☐ 4. 23

Q.21 A company earns a profit (in ₹) that is distributed among the company's three partners in the ratio of 5 : 8 : 17. If the difference between the smallest and the largest shares is ₹78,106, the total profit (in ₹) of the company is:

Ans ☐ 1. 1,95,278

☐ 2. 1,95,361

☐ 3. 1,95,302

☒ 4. 1,95,265

Q.22 A man driving a car at a speed of 54 km/hr crosses a bridge in 1.7 minutes. Find the length of the bridge.

Ans ☐ 1. 2.58 km

☐ 2. 2.13 km

☒ 3. 1.53 km

☐ 4. 0.92 km

Q.23 Two cubes of edge 5 cm are joined to form a cuboid. Find the total surface area of the cuboid.

Ans ☐ 1.  $25 \text{ cm}^2$

☒ 2.  $250 \text{ cm}^2$

☐ 3.  $100 \text{ cm}^2$

☐ 4.  $125 \text{ cm}^2$

Q.24 Pipe P can fill  $\frac{2}{3}$  part of a tank in 24 hours, and pipe Q can fill  $\frac{2}{3}$  part of the same tank in 16 hours.

Both P and Q were kept open for 4 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in 5 hours. Pipes P, Q and R together can fill the empty tank in:

Ans ☒ 1. 72 hours

☐ 2. 62 hours

☐ 3. 88 hours

☐ 4. 79 hours

Q.25 Find the mean proportional between 19 and 76.

Ans ☐ 1. 36

☐ 2. 37

☒ 3. 38

☐ 4. 39

Q.26 What smallest number should be added to 16809 so that the sum is completely divisible by 41?

- Ans
- ☐ 1. 3
  - ☐ 2. 2
  - ☒ 3. 1
  - ☐ 4. 4

Q.27 The selling price of 16 books is equal to the cost price of 8 books. Find the loss or gain percentage.

- Ans
- ☐ 1.  $\frac{100}{8}\%$  gain
  - ☐ 2. 50% gain
  - ☒ 3. 50% loss
  - ☐ 4.  $\frac{100}{8}\%$  loss

Q.28 Find the simple interest (in ₹) if a sum of ₹400 is borrowed for 5.5 years at 4% per annum rate of interest.

- Ans
- ☐ 1. 68
  - ☐ 2. 138
  - ☒ 3. 88
  - ☐ 4. 188

Q.29 What is the equivalent single discount for successive discounts of 20% and 10%?

- Ans
- ☐ 1. 27%
  - ☐ 2. 25%
  - ☐ 3. 30%
  - ☒ 4. 28%

Q.30 A can lay railway track between two given stations in 17 days and B can do the same job in 16 days. With the help of C, they did the job in 4 days only. Then, C alone can do the job in

- Ans
- ☐ 1.  $10\frac{27}{35}$  days
  - ☒ 2.  $7\frac{27}{35}$  days
  - ☐ 3.  $13\frac{27}{35}$  days
  - ☐ 4.  $11\frac{27}{35}$  days

#### Section : General Intelligence and Reasoning

Q.1 Raghunandan walks 325 m towards the west to reach a cloth showroom. Then he turns to the right and walks 220 m straight to reach the fitness centre. Again, he turns to the right and walks for 200 m straight. Then, he turns to the right again and walks for 220 m. How far is he from the starting point?( All turns are 90-degree turns only, unless specified.)

- Ans
- ☒ 1. 125 m
  - ☐ 2. 120 m
  - ☐ 3. 105 m
  - ☐ 4. 150 m

**Q.2** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$28 + 125 \times 5 - 12 \div 3 = ?$$

- Ans**
- ☐ 1. 28
  - ☐ 2. 46
  - ☒ 3. 39
  - ☐ 4. 21

**Q.3** In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(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.)

37, 62  
52, 77

- Ans**
- ☐ 1. 81, 96
  - ☐ 2. 69, 88
  - ☐ 3. 64, 84
  - ☒ 4. 46, 71

**Q.4** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

NUB 63, JQX 54, FMT 45, BIP 36, XEL 27, ?

- Ans**
- ☐ 1. TAI 17
  - ☐ 2. UAH 20
  - ☐ 3. TMH 15
  - ☒ 4. TAH 18

**Q.5** 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 one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☐ 1. ORM
  - ☐ 2. VYT
  - ☐ 3. RUP
  - ☒ 4. LOI

**Q.6** What should come in place of the question (?) in the given series?

53 70 91 116 145 ?

- Ans**
- ☐ 1. 171
  - ☐ 2. 194
  - ☐ 3. 186
  - ☒ 4. 178

**Q.7** Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ 1. SV-UX
  - ☒ 2. DG-FI
  - ☒ 3. BE-DG
  - ☒ 4. EI-HK

**Q.8** Eight people, S, T, U, V, W, X, Y and Z, are sitting in a straight line. All are facing towards the north. S sits third from the extreme left end of the line. W is an immediate neighbour of V. Only U sits between S and W. Z is sitting at the extreme right end of the line. T is an immediate neighbour of both Y and S. How many people sit to the right of W?

- Ans**
- ☒ 1. Three
  - ☒ 2. Four
  - ☒ 3. One
  - ☒ 4. Two

**Q.9** What should come in place of the question mark (?) in the given series?

442 530 626 730 842 ?

- Ans**
- ☒ 1. 901
  - ☒ 2. 1025
  - ☒ 3. 962
  - ☒ 4. 1090

**Q.10** 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 forests are hills.  
Some hills are deserts.

**Conclusions:**

(I): All hills are forests.  
(II): Some deserts are hills.

- Ans**
- ☒ 1. Only Conclusion II follows
  - ☒ 2. Only Conclusion I follows
  - ☒ 3. Both Conclusions I and II follow
  - ☒ 4. Neither Conclusion I nor II follows

**Q.11** 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 bottles are ludo.  
All ludo are dancer.

**Conclusions:**

(I): Some dancers are ludo.  
(II): All bottles are dancers.

- Ans**
- ☒ 1. Both conclusions (I) and (II) follow.
  - ☒ 2. Neither conclusion (I) nor (II) follows.
  - ☒ 3. Only conclusion (II) follows.
  - ☒ 4. Only conclusion (I) follows.

**Q.12** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

IUP -1 MRN -3 ? ULJ -27 YIH -81

- Ans**
- ☐ 1. YFQ -7
  - ☐ 2. PQS -7
  - ☒ 3. QQL -9
  - ☐ 4. QOP -9

**Q.13** Shekhar ranked 7<sup>th</sup> from the top and 38<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans**
- ☐ 1. 42
  - ☐ 2. 45
  - ☒ 3. 44
  - ☐ 4. 43

**Q.14** In a certain code language,  
A + B means 'A is the son of B',  
A – B means 'A is the sister of B',  
A x B means 'A is the wife of B' and  
A ÷ B means 'A is the father of B'.

How is Q related to D if 'Q ÷ E – R x C + D'?

- Ans**
- ☐ 1. Brother
  - ☐ 2. Father
  - ☒ 3. Son's wife's father
  - ☐ 4. Son's wife's brother

**Q.15** HOLN is related to XGBF in a certain way based on the English alphabetical order. In the same way, TIXH is related to JANZ. To which of the given options is PKTJ related, following the same logic?

- Ans**
- ☐ 1. FCBJ
  - ☐ 2. FCBH
  - ☐ 3. FHBC
  - ☒ 4. FCJB

**Q.16** 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 one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ 1. JQN
  - ☐ 2. HOK
  - ☐ 3. FMI
  - ☐ 4. LSO

**Q.17** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$26 \times 2 - 21 + 7 \div 4 = ?$$

- Ans**
- ☐ 1. 11
  - ☒ 2. 6
  - ☐ 3. 18
  - ☐ 4. 25

Q.18 What should come in place of the question mark (?) in the given series?

934 924 925 915 916 906 ? 897

- Ans
- ☐ 1. 896
  - ☐ 2. 908
  - ☒ 3. 907
  - ☐ 4. 895

Q.19 In a certain code language, 'MAZE' is coded as '3527' and 'AIDS' is coded as '2416'. What is the code for 'A' in the given code language?

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

Q.20 WPKD is related to TNHB in a certain way based on the English alphabetical order. In the same way, KHYV is related to HFVT. To which of the given options is BBPP related, following the same logic?

- Ans
- ☐ 1. YZNM
  - ☐ 2. YMZN
  - ☒ 3. YZMN
  - ☐ 4. YZSD

Q.21 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 8317456, what will be the sum of the digits that are second from the left and second from the right?

- Ans
- ☐ 1. 6
  - ☐ 2. 12
  - ☒ 3. 10
  - ☐ 4. 8

Q.22 This question is based on the five, three-digit numbers given below.  
(Left) 126 257 352 984 751 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)  
(NOTE: All operations to be done from left to right.)

If 2 is added in the third digit of each number, how many numbers thus formed will be odd numbers?

- Ans
- ☐ 1. One
  - ☒ 2. Two
  - ☐ 3. Three
  - ☐ 4. None

Q.23 Refer to the following number and symbol series and answer the question that follows.  
Counting to be done from left to right only.

(Left) 2 % / < 9 \$ / % 6 \* 4 5 8 # ? > 2 2 + 2 \ (Right)

How many such symbols are there, each of which is immediately preceded by a number and also immediately followed by another symbol?

- Ans
- ☒ 1. Three
  - ☐ 2. One
  - ☐ 3. Two
  - ☐ 4. None

**Q.24** 1 is subtracted from each even digit of the number 95423671 and then the digits are arranged in ascending order from left to right. Find the sum of the digits that are second from the left and third from the right.

- Ans**
- ☐ 1. 9
  - ☐ 2. 7
  - ☒ 3. 6
  - ☐ 4. 5

**Q.25** Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Only four boxes are kept between C and F. Only A is kept above C. Only two boxes are kept between D and E. G is kept immediately above B. E is not kept immediately above G. How many boxes are kept above G?

- Ans**
- ☐ 1. 1
  - ☒ 2. 3
  - ☐ 3. 4
  - ☐ 4. 2

**Q.26** Harini starts from Point Y and drives 7 km towards the south. She then takes a left turn, drives 14 km. She then turns left and drives 7 km. She takes a final left turn, drives 18 km and stops at Point Z. How far (shortest distance) and towards which direction should she drive in order to reach Point Y again? (All turns are 90-degree turns only unless specified)

- Ans**
- ☐ 1. 10 km towards south
  - ☐ 2. 8 km towards west
  - ☐ 3. 1 km towards north
  - ☒ 4. 4 km towards east

**Q.27** Seven boxes F, G, H, I, K, L, and O are kept one over the other but not necessarily in the same order. Only three boxes are kept below H. Only two boxes are kept between H and O. Only L is kept above G. F is kept at some place below I and at some place above K. Which box is kept at second position from the bottom?

- Ans**
- ☐ 1. O
  - ☐ 2. G
  - ☐ 3. F
  - ☒ 4. K

**Q.28** Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

HTO : DWK  
XHE : TKA

- Ans**
- ☒ 1. PNW : LQS
  - ☐ 2. FCV : KZQ
  - ☐ 3. HKV : ENS
  - ☐ 4. YFH : UKD

**Q.29** L, M, N, O, Q, R and S are sitting around a circular table, facing the centre of the table. Only one person sits between Q and S when counted from the right of Q. Only one person sits between S and N. Only one person sits between Q and R. Only two people sit between L and N. Only one person sits between O and R. Who sits third to the right of M?

- Ans**
- ☒ 1. S
  - ☐ 2. L
  - ☐ 3. N
  - ☐ 4. O

**Q.30** In a certain code language, 'BEST' is coded as '3527' and 'EARN' is coded as '1246'.  
What is the code for 'E' in the given code language?

**Ans**  1. 2

 2. 5

 3. 1

 4. 6