



## 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	20/08/2025
Test Time	12:45 PM - 2:15 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** In May 2025, which Indian organisation successfully completed the 'Har Shikhar Tiranga' mission by summiting Mt. Kangchenjunga?

- Ans**
- ☒ 1. National Institute of Mountaineering and Adventure Sports
  - ☐ 2. Himalayan Club
  - ☐ 3. Indian Mountaineering Foundation
  - ☐ 4. Border Roads Organisation

**Q.2** Which strategy DOES NOT promote sustainable development in agriculture?

- Ans**
- ☐ 1. Efficient irrigation systems
  - ☐ 2. Use of drought-resistant crops
  - ☒ 3. Excessive use of chemical fertilizers
  - ☐ 4. Crop rotation and organic farming

**Q.3** Where was rural development particularly emphasised in the Seventh Five-Year Plan?

- Ans**
- ☐ 1. Industrial zones
  - ☐ 2. Urban centers
  - ☐ 3. Foreign markets
  - ☒ 4. Rural capital formation areas

**Q.4** During which era was the Hazara Rama Temple, situated in Hampi, India, first established?

- Ans**
- ☐ 1. Early 11<sup>th</sup> century
  - ☒ 2. Early 15<sup>th</sup> century
  - ☐ 3. Early 13<sup>th</sup> century
  - ☐ 4. Early 19<sup>th</sup> century

**Q.5** Which of the following schemes focuses on providing rural connectivity through all-weather roads?

- Ans**
- ☒ 1. Pradhan Mantri Gram Sadak Yojana
  - ☐ 2. Pradhan Mantri Awas Yojana–Gramin
  - ☐ 3. RURBAN Mission
  - ☐ 4. Saansad Adarsh Gram Yojana

**Q.6** As per the PIB report published on 17 April 2025, India's defence production has reached a new milestone by increasing from ₹40,000 crore in 2014 to over how much in the financial year 2023-24?

- Ans**
- ☐ 1. ₹1.33 lakh crore
  - ☐ 2. ₹1.11 lakh crore
  - ☒ 3. ₹1.27 lakh crore
  - ☐ 4. ₹1.19 lakh crore

**Q.7** What is the primary aim of the National Urban Livelihoods Mission (NULM)?

- Ans**
- ☐ 1. Encouraging foreign investment in urban infrastructure
  - ☒ 2. Reducing urban poverty through skill development and self-employment
  - ☐ 3. Promoting smart cities in Tier-2 towns
  - ☐ 4. Providing subsidised housing to rural workers

**Q.8** Which Article allows the President to appoint a Commission to investigate the condition of socially and educationally backward classes?

- Ans**
- ☐ 1. Article 330
  - ☐ 2. Article 332
  - ☒ 3. Article 340
  - ☐ 4. Article 342

**Q.9** What is the term used for the persistence of sound in a large hall due to repeated reflections from walls and other surfaces?

- Ans**
- ☒ 1. Reverberation
  - ☐ 2. Diffraction
  - ☐ 3. Refraction
  - ☐ 4. Interference

**Q.10** Bal Gangadhar Tilak gave which popular slogan to arouse nationalist sentiments among the Indians?

- Ans**
- ☐ 1. Inquilab Zindabad
  - ☐ 2. Vande Mataram
  - ☐ 3. Quit India
  - ☒ 4. Swaraj is my birthright

**Q.11** Which of the following acts was aimed at establishing a federal polity in India?

- Ans**
- ☐ 1. Indian Councils Act, 1892
  - ☐ 2. Rowlatt Act, 1919
  - ☒ 3. Government of India Act, 1935
  - ☐ 4. Government of India Act, 1858

**Q.12** Which of the following classical dance forms is known for storytelling through facial expressions and hand gestures, and comes from Tamil Nadu?

- Ans**
- ☒ 1. Bharatanatyam
  - ☐ 2. Kathak
  - ☐ 3. Odissi
  - ☐ 4. Kuchipudi

**Q.13** What is the correct way to rename a file or folder using the right mouse button?

- Ans**
- ☐ 1. Right-click on the desktop → Select New → Rename
  - ☐ 2. Double-click on the file → Type new name
  - ☒ 3. Right-click on the file → Select Rename → Type new name → Press Enter
  - ☐ 4. Left-click on the file → Press Delete → Type new name

**Q.14 Which is the first country to develop genome-based rice variety?**

- Ans**
- ☐ 1. China
  - ☒ 2. India
  - ☐ 3. The US
  - ☐ 4. France

**Q.15 Which of the following countries shares the longest land border with India?**

- Ans**
- ☐ 1. Pakistan
  - ☐ 2. Nepal
  - ☒ 3. Bangladesh
  - ☐ 4. China

**Q.16 Who became the first artist to win Best Male Act three times at the 2025 MOBO Awards?**

- Ans**
- ☐ 1. Stormzy
  - ☐ 2. Skepta
  - ☒ 3. Central Cee
  - ☐ 4. Dave

**Q.17 Which group of Indian islands lies in the Arabian Sea near the Malabar Coast and consists of coral islands?**

- Ans**
- ☐ 1. Andaman Islands
  - ☐ 2. Nicobar Islands
  - ☐ 3. Sundarbans
  - ☒ 4. Lakshadweep Islands

**Q.18 Which of the following sectors includes banking, communication and transport?**

- Ans**
- ☐ 1. Quaternary
  - ☐ 2. Secondary
  - ☐ 3. Primary
  - ☒ 4. Tertiary

**Q.19 Who was the founder of the Mauryan Empire and established a centralised administrative system?**

- Ans**
- ☐ 1. Ashoka
  - ☐ 2. Bindusara
  - ☒ 3. Chandragupta Maurya
  - ☐ 4. Brihadratha

**Q.20 DBW 371 (Karan Vrinda), DBW 303 (Karan Vaishnavi) and DBW 187 (Karan Vandana) are varieties of which crop in India?**

- Ans**
- ☐ 1. Rice
  - ☒ 2. Wheat
  - ☐ 3. Tea
  - ☐ 4. Maize

**Q.21 Who among the following bagged India's first gold medal at International Shooting Sport Federation (ISSF) Junior World Cup, Germany in May 2025?**

- Ans**
- ☐ 1. Divanshi
  - ☐ 2. Parisha Gupta
  - ☐ 3. Sainyam
  - ☒ 4. Kanak

**Q.22** In Brahmadeya villages under the Pallavas, which caste predominantly managed the local Sabha assemblies?

- Ans**
- ☐ 1. Vaishyas
  - ☐ 2. Shudras
  - ☒ 3. Brahmanas
  - ☐ 4. Kshatriyas

**Q.23** Who acts as the real executive head in a state?

- Ans**
- ☐ 1. Governor
  - ☒ 2. Chief Minister
  - ☐ 3. Speaker
  - ☐ 4. Advocate General

**Q.24** The Central Government approved the allocation of additional how many million tonnes of rice from the Food Corporation of India (FCI) for ethanol production in May 2025?

- Ans**
- ☐ 1. 2.1 million tonnes
  - ☒ 2. 2.8 million tonnes
  - ☐ 3. 3.2 million tonnes
  - ☐ 4. 2.4 million tonnes

**Q.25** What instrument is used to measure lung volumes during breathing?

- Ans**
- ☐ 1. Respirometer
  - ☐ 2. Sphygmomanometer
  - ☒ 3. Spirometer
  - ☐ 4. Barometer

**Q.26** The Rajya Sabha seat distribution among states is found in which Schedule of the Indian Constitution?

- Ans**
- ☒ 1. Fourth Schedule
  - ☐ 2. Tenth Schedule
  - ☐ 3. Second Schedule
  - ☐ 4. First Schedule

**Q.27** What happens when user right-clicks on an empty area of the MS Windows desktop?

- Ans**
- ☒ 1. A context menu with view and display settings is opened.
  - ☐ 2. The File Explorer is launched.
  - ☐ 3. The Task Manager opens.
  - ☐ 4. The Start Menu is displayed.

**Q.28** Who became the first Indian driver to win a Formula 2 race in May 2025?

- Ans**
- ☐ 1. Arjun Maini
  - ☐ 2. Narain Karthikeyan
  - ☐ 3. Jehan Daruvala
  - ☒ 4. Kush Maini

**Q.29** Which organisation introduced new guidelines in 2025 to regulate the sale of radio equipment, including walkie-talkies, on e-commerce platforms?

- Ans**
- ☐ 1. Department of Telecommunications (DoT)
  - ☒ 2. Central Consumer Protection Authority (CCPA)
  - ☐ 3. Telecom Regulatory Authority of India (TRAI)
  - ☐ 4. Ministry of Electronics and Information Technology (MeitY)

**Q.30** What is the codename of the Low-Level Transportable Radar (LLTR) to be procured by the Ministry of Defence (MoD) with Bharat Electronics Limited (BEL) at a cost of ₹2,906 crore in March 2025?

- Ans**
- ☒ 1. Ashwini
  - ☐ 2. Vayu
  - ☐ 3. Surya
  - ☐ 4. Indra

**Q.31** The Planning Commission was the nodal body for central planning in India. Who served as the first Chairman of the Planning Commission?

- Ans**
- ☒ 1. Jawaharlal Nehru
  - ☐ 2. BR Ambedkar
  - ☐ 3. Sardar Vallabhbhai Patel
  - ☐ 4. CD Deshmukh

**Q.32** What was one recommendation of the Sarkaria Commission regarding Governors?

- Ans**
- ☐ 1. Governors should be elected by States.
  - ☐ 2. Governors should be military officers.
  - ☐ 3. Governors should only be politicians.
  - ☒ 4. Governors should be non-partisan.

**Q.33** Which philosophical work did Rammohan Roy write in 1803 analysing world religions through reason and social relevance?

- Ans**
- ☐ 1. Hind Swaraj
  - ☐ 2. Satyarth Prakash
  - ☒ 3. Tuhfat-ul Muwahhidin
  - ☐ 4. Precepts of Jesus

**Q.34** What is the primary purpose of the Raksha Kavach system showcased by the Defence Research and Development Organisation (DRDO) on Republic Day, 2025?

- Ans**
- ☐ 1. Cyber warfare
  - ☒ 2. Multi-layered defence protection
  - ☐ 3. Ground-based artillery support
  - ☐ 4. Naval operations

**Q.35** Which of the following animals is listed as endangered and protected under the Indian Wildlife Protection Act, 1972?

- Ans**
- ☐ 1. Hanuman langur
  - ☐ 2. Peacock
  - ☐ 3. Nilgai
  - ☒ 4. Lion-tailed macaque

**Q.36** As per the Scheduled Castes (Rationalisation of Reservation) Act, 2025 implemented by Telangana government, what percentage of reservation will Group II get within the 15 percent quota for SC?

- Ans**
- ☐ 1. 7.5%
  - ☒ 2. 9%
  - ☐ 3. 5%
  - ☐ 4. 3%

**Q.37** Which two countries signed an agreement on 22 May 2025, regarding the future of the Chagos Archipelago?

- Ans**
- ☐ 1. United Kingdom and India
  - ☐ 2. United States and Republic of Mauritius
  - ☒ 3. United Kingdom and Republic of Mauritius
  - ☐ 4. United Kingdom and Seychelles

**Q.38** Provision for securing just and humane conditions of work and maternity relief comes under which Article of the Indian Constitution?

- Ans**
- ☐ 1. Article 39A
  - ☐ 2. Article 45
  - ☐ 3. Article 47
  - ☒ 4. Article 42

**Q.39** Which of the following organisations in India developed the world's highest-resolution weather forecasting model in May 2025?

- Ans**
- ☐ 1. National Centre for Medium Range Weather Forecasting (NCMRWF)
  - ☒ 2. Indian Institute of Tropical Meteorology (IITM)
  - ☐ 3. India Meteorological Department (IMD)
  - ☐ 4. Indian Space Research Organisation (ISRO)

**Q.40** Which of the following foods is a rich source of dietary fibre for human beings?

- Ans**
- ☐ 1. Chicken
  - ☐ 2. Cheese
  - ☐ 3. Fish
  - ☒ 4. Oats

#### Section : Mathematics

**Q.1** The average weight (in kg) of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 76 kg and 36 kg is:

- Ans**
- ☐ 1. 52.4
  - ☐ 2. 53.4
  - ☒ 3. 51.4
  - ☐ 4. 50.4

**Q.2** The average of first 174 even numbers is

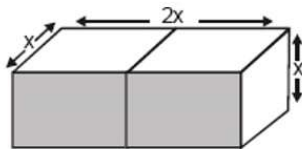
- Ans**
- ☒ 1. 175
  - ☐ 2. 176
  - ☐ 3. 175.5
  - ☐ 4. 174.5

**Q.3** Pipe A can fill a tank in 13 hours, Pipe B in 27 hours, and Pipe C in 19 hours. What is the time (in hours) taken to fill the tank when all three pipes are opened together?

- Ans**
- ☐ 1.  $5\frac{3}{1111}$
  - ☐ 2.  $4\frac{3}{1111}$
  - ☒ 3.  $6\frac{3}{1111}$
  - ☐ 4.  $7\frac{3}{1111}$

Q.4

Two cubes each of volume  $125 \text{ cm}^3$  are joined end to end. The total surface area of the resulting cuboid is:



Ans

- ☐ 1.  $160 \text{ cm}^2$
- ☐ 2.  $80 \text{ cm}^2$
- ☐ 3.  $125 \text{ cm}^2$
- ☒ 4.  $250 \text{ cm}^2$

Q.5

A vendor claims to sell wheat at a loss of 65%, but he cheats by using weights that are 70% less than the stated weight. What is his actual profit percentage (round off to two decimal places)?

Ans

- ☐ 1. 12.93%
- ☐ 2. 19.59%
- ☐ 3. 11.35%
- ☒ 4. 16.67%

Q.6

A wholesaler offers a trade discount of 15% on a product priced at ₹8,000. The customer is also eligible for a scheme discount of 5% on the already discounted price. What is the final price the customer has to pay?

Ans

- ☐ 1. ₹6,440
- ☐ 2. ₹6,800
- ☒ 3. ₹6,460
- ☐ 4. ₹6,600

Q.7

M and N started a business. M invested ₹69,000 more than N for 5 months, while N invested for 3 months. M's share is ₹720 more than that of N, out of a total profit of ₹2,160. Find the capital contributed by M.

Ans

- ☐ 1. ₹4,14,120
- ☒ 2. ₹4,14,000
- ☐ 3. ₹4,14,073
- ☐ 4. ₹4,14,100

Q.8

Find the simple interest (in ₹) on ₹4,000 at 7.5% per annum rate of interest deposited on 3 February 2024 and withdrawn on 4 April 2024.

Ans

- ☐ 1. ₹48
- ☐ 2. ₹51
- ☒ 3. ₹50
- ☐ 4. ₹49

Q.9

A man goes to Lucknow from Kanpur at a speed of 36 km/hr and returns to Kanpur at speed of 45 km/hr, through the same route. What is his average speed (in km/hr) of the entire journey?

Ans

- ☐ 1. 43
- ☐ 2. 45
- ☐ 3. 39
- ☒ 4. 40

Q.10

By how much is 65% of 65 greater than  $\frac{3}{5}$  of 15?

- Ans
- ☒ 1. 33.25
  - ☐ 2. 31.25
  - ☐ 3. 30.25
  - ☐ 4. 27.25

Q.11 The HCF and the LCM of two numbers are 5 and 3190, respectively. If one of the numbers is 110, find the other one.

- Ans
- ☐ 1. 155
  - ☐ 2. 135
  - ☒ 3. 145
  - ☐ 4. 165

Q.12 If the 6-digit number N00M49 is divisible by 11, then which of the options below can give a possible correct relation between M and N?

- Ans
- ☐ 1.  $M - N = 1$
  - ☒ 2.  $M - N = -5$
  - ☐ 3.  $M + N = 5$
  - ☐ 4.  $M = N$

Q.13 Sapna invested ₹20,700 on simple interest, partly at 9% per annum and partly at 14% per annum. If she earns equal interests from the two investments after 3 years, then find the sum invested at 9% per annum (in ₹).

- Ans
- ☒ 1. 12,600
  - ☐ 2. 12,597
  - ☐ 3. 12,599
  - ☐ 4. 12,602

Q.14 In covering a distance of 52 km, Pranay takes 7 hours more than Aman. If Pranay doubles his speed, then he would take 6 hours less than Aman. Pranay's speed is:

- Ans
- ☐ 1. 10 km/hr
  - ☐ 2. 3 km/hr
  - ☒ 3. 2 km/hr
  - ☐ 4. 8 km/hr

Q.15 The volume of a cube is  $1728 \text{ cm}^3$ . Find its total surface area (in  $\text{cm}^2$ ).

- Ans
- ☐ 1. 884
  - ☐ 2. 764
  - ☒ 3. 864
  - ☐ 4. 784

Q.16

Simplify:  $4\left(\left(\frac{7}{4}\right)x^2 - 27x + 19\right) - 7(x^2 + 9x - 14)$ .

- Ans
- ☐ 1.  $171x + 174$
  - ☐ 2.  $171x - 174$
  - ☒ 3.  $-171x + 174$
  - ☐ 4.  $-171x - 174$



Q.17 Mohan bought some pens at the rate of ₹150/dozen. He sold them for ₹16 each. His profit percentage is \_\_\_\_%.

- Ans
- ☒ 1. 28
  - ☐ 2. 30
  - ☐ 3. 26
  - ☐ 4. 32

Q.18 Which of the following numbers divides 889897?

- Ans
- ☐ 1. 69
  - ☐ 2. 52
  - ☒ 3. 59
  - ☐ 4. 64

Q.19 The LCM of the numbers 2.1 and 0.68 is:

- Ans
- ☒ 1. 71.4
  - ☐ 2. 0.714
  - ☐ 3. 714
  - ☐ 4. 7.14

Q.20 Evaluate:  $(-9) - (-60) \div (-6) + (-4) \times 8$

- Ans
- ☐ 1. -54
  - ☒ 2. -51
  - ☐ 3. -53
  - ☐ 4. -50

Q.21 P, Q and R invest a sum in the ratio of 3 : 53 : 24, respectively. If they earned a total profit of ₹1,280 at the end of the year, then what is the difference between share of Q and R?

- Ans
- ☐ 1. ₹533
  - ☒ 2. ₹464
  - ☐ 3. ₹417
  - ☐ 4. ₹570

Q.22 A shopkeeper bought an article for ₹576. At what price should he mark the article to earn a profit of 15% after allowing a discount of 4%?

- Ans
- ☐ 1. ₹636
  - ☒ 2. ₹690
  - ☐ 3. ₹685
  - ☐ 4. ₹639

Q.23 The population of a district is 373000, out of which 227000 are males. 69% of the population is literate. If 69% males are literate, then what percentage of females are literate?

- Ans
- ☐ 1. 70%
  - ☒ 2. 69%
  - ☐ 3. 68%
  - ☐ 4. 67%

Q.24 The cost of 18 pens and 4 pencils is ₹200. If the cost of a pen decreases by ₹1 and the cost of a pencil increases by ₹3, then the cost of 19 pens and 3 pencils is ₹151. What is the original cost of 12 pens and 10 pencils?

- Ans
- ☐ 1. ₹430
  - ☒ 2. ₹434
  - ☐ 3. ₹429
  - ☐ 4. ₹433

Q.25 If 77% of first number is equal to three-fourths of second number, what is the ratio of first number to the second number?

- Ans
- ☒ 1. 75 : 77
  - ☐ 2. 74 : 75
  - ☐ 3. 73 : 82
  - ☐ 4. 72 : 73

Q.26 Find the value of  $[290 \div \{17 + 7 \times (2 - 3)\}]$ .

- Ans
- ☐ 1. 25
  - ☐ 2. 24
  - ☐ 3. 26
  - ☒ 4. 29

Q.27 The value of  $\frac{(1 + \sin A)(\tan A - \sec A + 1)\sec A}{\tan A + \sec A - (\sec^2 A - \tan^2 A)}$  is:

- Ans
- ☐ 1.  $\sin A$
  - ☒ 2. 1
  - ☐ 3.  $\sec A$
  - ☐ 4. 0

Q.28 Two pipes can fill a cistern, individually, in 70 min and 30 min, respectively. There is a pipe located at the bottom of the cistern to empty it. If all the three pipes are opened simultaneously, then the empty cistern gets filled in 28 min. How long will the pipe at the bottom of the tank take to empty the completely filled cistern if no other pipe is then open?

- Ans
- ☐ 1. 80 min
  - ☒ 2. 84 min
  - ☐ 3. 81 min
  - ☐ 4. 67 min

Q.29 ABCD is a trapezium in which  $BC \parallel AD$  and  $AC = CD$ . If  $\angle ABC = 40^\circ$  and  $\angle BAC = 120^\circ$ , then what is the measure of  $\angle ACD$  (in degree)?

- Ans
- ☐ 1.  $144^\circ$
  - ☐ 2.  $148^\circ$
  - ☒ 3.  $140^\circ$
  - ☐ 4.  $149^\circ$

Q.30 5 years ago, the age of a father was 14 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

- Ans
- ☒ 1. 9
  - ☐ 2. 11
  - ☐ 3. 14
  - ☐ 4. 10

**Q.1** 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 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 position in the letter-cluster.)

- Ans**
- ☒ 1. WY-PY
  - ☒ 2. SU-LP
  - ☒ 3. QS-JS
  - ☒ 4. UW-NW

**Q.2** Prashant ranked 11<sup>th</sup> from the bottom and 23<sup>th</sup> from the top in his class. How many students are there in his class?

- Ans**
- ☒ 1. 30
  - ☒ 2. 32
  - ☒ 3. 33
  - ☒ 4. 31

**Q.3** What should come in place of the question mark (?) in the given series?

55 64 81 106 139 ?

- Ans**
- ☒ 1. 181
  - ☒ 2. 180
  - ☒ 3. 182
  - ☒ 4. 179

**Q.4** Seven people, D, E, F, G, H, I and X, are sitting around a circular table facing the centre of the table. E sits to the immediate right of D. Only three people sit between E and G when counted from the left of E. Only three people sit between D and H. F sits to the immediate right of I. How many people sit between X and I when counted from the left of I?

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

**Q.5** Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

KFD : IIB  
UDD : SGB

- Ans**
- ☒ 1. SCM : QFO
  - ☒ 2. VRB : TUD
  - ☒ 3. RPH : PSK
  - ☒ 4. WBI : UEG

**Q.6** In a certain code language, 'FEAR' is coded as '2461' and 'THEM' is coded as '1593'. What is the code for 'E' in that language?

- Ans**
- ☒ 1. 4
  - ☒ 2. 1
  - ☒ 3. 3
  - ☒ 4. 9

Q.7 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

KPX MOU ONR ? SLL

- Ans
- ☐ 1. SQP
  - ☐ 2. MSP
  - ☐ 3. PSQ
  - ☒ 4. QMO

Q.8 R is the brother of C. C is the brother of A. A is the mother of G. G is the son of H. How is R related to H?

- Ans
- ☐ 1. Father
  - ☐ 2. Brother
  - ☒ 3. Wife's brother
  - ☐ 4. Wife's father

Q.9 Each of the digits in the number 7642915 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

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

Q.10 Refer to the following number and symbol series and answer the question that follows. All numbers are single-digit. Counting to be done from left to right.

(Left) 3 8 \$ 7 ? 5 % 4 1 Ω 2 # 6 & \* 9 @ £ (Right)

How many such symbols are there, each of which is immediately preceded by an even number and also immediately followed by an odd number?

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

Q.11 What will come in the place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and '×' are interchanged?

$$26 + 2 \times 12 - 2 \div 16 = ?$$

- Ans
- ☐ 1. 15
  - ☐ 2. 26
  - ☒ 3. 5
  - ☐ 4. 21

Q.12 What should come in place of the question mark (?) in the given series?

591 592 596 605 621 ?

- Ans
- ☐ 1. 641
  - ☐ 2. 636
  - ☒ 3. 646
  - ☐ 4. 631

Q.13 Six friends, J, K, L, M, N and O, are sitting in a straight line, facing north. L sits second to the left of M, who sits to the immediate left of K. J sits to the immediate left of N. L does not sit on any of the extreme ends. Who sits second to the right of O?

- Ans
- ☐ 1. N
  - ☐ 2. M
  - ☐ 3. J
  - ☒ 4. K

Q.14 If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 4739215, what will be the difference between the greatest and smallest digits in the new number thus formed?

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

Q.15 Read the given statement(s) 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 statement(s).

**Statements:**

All Turquoises are Ochres.  
All Ochres are Blues.

**Conclusions:**

- I. No Blues are Turquoises.
- II. Some Blues are Turquoises.

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

Q.16 Anuj starts from Point A and drives 5 km towards north. He then takes a left turn, drives 6 km, turns left and drives 9 km. He then takes a left turn and drives 11 km. He takes a final left 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° turns only unless specified.)

- Ans
- ☐ 1. 6 km to west
  - ☒ 2. 5 km to west
  - ☐ 3. 8 km to west
  - ☐ 4. 7 km to west

Q.17 GULP is related to IWOS in a certain way based on the English alphabetical order. In the same way, KYRV is related to MAUY. To which of the following is OCXB related, following the same logic?

- Ans
- ☐ 1. PFCG
  - ☐ 2. RDZF
  - ☒ 3. QEAE
  - ☐ 4. PEBD

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

550 551 555 556 560 561 ? 566

- Ans
- ☐ 1. 567
  - ☒ 2. 565
  - ☐ 3. 563
  - ☐ 4. 564

**Q.19** Refer to the following number and symbol series and answer the question that follows.  
Counting to be done from left to right only.

(Left) 9 9 5 € 2 3 £ © € \* 3 4 \* @ @ 1 & 7 @ £ \* 1 (Right)

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

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

**Q.20** MONK is related to RTSP in a certain way based on the English alphabetical order. In the same way, GIHE is related to LNMJ. To which of the following is VXWT related, following the same logic?

- Ans
- ☒ 1. ACBY
  - ☐ 2. ACFR
  - ☐ 3. AYTR
  - ☐ 4. AVGF

**Q.21** Shikhar ranked 38<sup>th</sup> from the top and 24<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans
- ☐ 1. 60
  - ☐ 2. 62
  - ☒ 3. 61
  - ☐ 4. 63

**Q.22** 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 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. FM-CW
  - ☐ 2. IP-FZ
  - ☒ 3. MT-ID
  - ☐ 4. RY-OI

**Q.23** In a row of 49 students facing north, Ankur is 19<sup>th</sup> from the right end. If Tinu is 11<sup>th</sup> to the left of Ankur, what is Tinu's position from the left end of the line?

- Ans
- ☐ 1. 17
  - ☐ 2. 19
  - ☒ 3. 20
  - ☐ 4. 18

**Q.24** What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and '×' are interchanged?

$$15 - 3 \div 21 + 3 \times 36 = ?$$

- Ans
- ☐ 1. 9
  - ☐ 2. 13
  - ☒ 3. 16
  - ☐ 4. 21

**Q.25** In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Select the number-pair in which the numbers are related in the same way as are the numbers of the following pairs.  
(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)  
18, 141  
42, 165

**Ans** ☒ 1. 36, 159

☐ 2. 24, 167

☐ 3. 28, 129

☐ 4. 11, 155

**Q.26** Shivani starts from point A and drives 11 km towards the east. She then takes a left turn, drives 5 km, turns right and drives 5 km. She then takes a right turn and drives 7 km. She then takes a right turn, drives 7 km. She then takes a left turn and drives 10 km. She then takes a final right turn and drives 9 km and stops at point B. How far and towards which direction should she drive in order to reach point A again? (All turns are 90 degrees unless specified)

**Ans** ☐ 1. 10 km north

☐ 2. 10 km south

☒ 3. 12 km north

☐ 4. 11 km north

**Q.27** In a certain code language, 'PORT' is coded as '9125' and 'ROPE' is coded as '1352'. What is the code for 'E' in the given code language?

**Ans** ☐ 1. 2

☐ 2. 5

☒ 3. 3

☐ 4. 1

**Q.28** 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. JU - OS

☐ 2. GR - KP

☐ 3. CN - GL

☐ 4. OA - SY

**Q.29** Read the given statement(s) and conclusions carefully. Assuming that the information given in the statement(s) 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 statement(s).

**Statements:**

All glasses are bowls.

All bowls are plates.

**Conclusions:**

(I) Some plates are bowls.

(II) All glasses are plates.

**Ans** ☐ 1. Only conclusion (I) follows.

☐ 2. Only conclusion (II) follows.

☐ 3. Neither conclusion (I) nor (II) follows.

☒ 4. Both conclusions (I) and (II) follow.

**Q.30** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

**UKM 1 SML 3 QOK 9 OQJ 27 ?**

**Ans**

 1. MTI 79

 2. MSI 81

 3. MSI 79

 4. MSJ 81