



## 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	13/08/2025
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** The Stockholm Convention on Persistent Organic Pollutants was adopted at a Conference of Plenipotentiaries in which year?

- Ans
- ☒ 1. 2000
  - ☒ 2. 2002
  - ☒ 3. 2001
  - ☒ 4. 2003

**Q.2** How can you access menus in the menu bar in Windows?

- Ans
- ☒ 1. Press Ctrl + M to open the menu.
  - ☒ 2. Right-click on the title bar to open the menu bar.
  - ☒ 3. Press Alt and the letter underlined in the menu title to access a menu.
  - ☒ 4. Press F5 to open the menu bar.

**Q.3** Which Indian institute introduced two new BTech programs in Computational Engineering and Mechanics and Instrumentation and Biomedical Engineering, starting from the academic year 2025-26?

- Ans
- ☒ 1. Indian Institute of Technology Kharagpur
  - ☒ 2. Indian Institute of Technology Bombay
  - ☒ 3. Indian Institute of Technology Kanpur
  - ☒ 4. Indian Institute of Technology Madras

**Q.4** When was the National Rural Health Mission (NRHM) launched by the Government of India?

- Ans
- ☒ 1. 26 January 2006
  - ☒ 2. 12 April 2004
  - ☒ 3. 12 April 2005
  - ☒ 4. 8 March 2004

**Q.5** The Dutch East India Company established its first factory in India in \_\_\_\_\_.

- Ans
- ☒ 1. Calicut
  - ☒ 2. Goa
  - ☒ 3. Petapuli
  - ☒ 4. Pondicherry

**Q.6** Why is an alloy considered a mixture even though it cannot be separated by physical methods?

- Ans**
- ☒ 1. It is formed only by non-metals.
  - ☒ 2. It shows the properties of its constituents and can have variable composition.
  - ☐ 3. It contains only one type of element in vapor form.
  - ☐ 4. Alloys are always magnetic because they contain metals with a fixed composition.

**Q.7** In 2025, who became the youngest Indian to summit Mt. Everest and to complete the Seven Summits challenge?

- Ans**
- ☒ 1. Vishwanath Padakanti
  - ☐ 2. Malavath Purna
  - ☐ 3. Krushnaa Patil
  - ☐ 4. Arjun Vajpai

**Q.8** Which of the following projects is designed to provide irrigation to Rajasthan's desert areas?

- Ans**
- ☒ 1. Indira Gandhi Canal
  - ☐ 2. Hirakud Project
  - ☐ 3. Chambal Project
  - ☐ 4. Kosi Project

**Q.9** In most software applications, what does Ctrl + S do if pressed multiple times?

- Ans**
- ☒ 1. Updates the saved file without creating a new one
  - ☐ 2. Reverts the document
  - ☐ 3. Saves a new copy each time
  - ☐ 4. Deletes the previous version

**Q.10** Which department, headed by Dabir-i-Khas, handled royal correspondence and official communication during the Delhi Sultanate?

- Ans**
- ☐ 1. Diwan-i-Riyasat
  - ☐ 2. Diwan-i-Arz
  - ☒ 3. Diwan-i-Insha
  - ☐ 4. Barid-i-Mumalik

**Q.11** In which Indian city was the First International Research Conference on Pension (IRCP) inaugurated in April 2025?

- Ans**
- ☒ 1. New Delhi
  - ☐ 2. Mumbai
  - ☐ 3. Uttar Pradesh
  - ☐ 4. Kerala

**Q.12** The western cyclonic disturbances that enter the Indian subcontinent from the west and the northwest during the winter months originate from which of the following regions?

- Ans**
- ☒ 1. Mediterranean Sea
  - ☐ 2. Black Sea
  - ☐ 3. Baltic Sea
  - ☐ 4. North Atlantic Ocean

**Q.13** Which eminent violinist from Karnataka was awarded the Padma Vibhushan in 2025 for his outstanding contributions to Indian classical music?

- Ans**
- ☐ 1. Anant Nag
  - ☒ 2. Lakshminarayana Subramaniam
  - ☐ 3. Gangubai Hangal
  - ☐ 4. Ricky Kej

**Q.14** Who took charge as the Vice Chief of the Air Staff of the Indian Air Force on 2 May 2025?

- Ans**
- ☐ 1. Air Marshal Anil Chopra
  - ☐ 2. Air Marshal Rakesh Kumar Singh Bhaduria
  - ☐ 3. Air Marshal SP Dharkar
  - ☒ 4. Air Marshal Narmadeshwar Tiwari

**Q.15** In 1995, physicists Eric Cornell and Carl Wieman created the first Bose-Einstein condensate (BEC) using which isotope?

- Ans**
- ☐ 1. Caesium-133
  - ☐ 2. Thorium-232
  - ☒ 3. Rubidium-87
  - ☐ 4. Sodium-23

**Q.16** Which Article of the Constitution states, 'no person shall be deprived of his property save by authority of law'?

- Ans**
- ☐ 1. Article 111
  - ☐ 2. Article 2
  - ☒ 3. Article 300A
  - ☐ 4. Article 368

**Q.17** As per the first Panchayat Advancement Index (PAI) report released in April 2025, which two states are leading with the highest number of "front runner" panchayats?

- Ans**
- ☐ 1. Chhattisgarh and Uttar Pradesh
  - ☐ 2. Assam and West Bengal
  - ☒ 3. Gujarat and Telangana
  - ☐ 4. Meghalaya and Nagaland

**Q.18** What is the name of the medical instrument used to listen to internal body sounds, especially from the heart and lungs?

- Ans**
- ☐ 1. Barometer
  - ☐ 2. Endoscope
  - ☒ 3. Stethoscope
  - ☐ 4. Colonoscope

**Q.19** In 2025, which region in India witnessed Kuki groups demanding the maintenance of buffer zones to manage ethnic tensions?

- Ans**
- ☐ 1. Nagaland
  - ☐ 2. Assam
  - ☐ 3. Mizoram
  - ☒ 4. Manipur

**Q.20** On 23 April 2025, the Indian Government announced the suspension of which treaty/agreement with Pakistan citing national security concerns?

- Ans**
- ☒ 1. Indus Waters Treaty
  - ☐ 2. Tashkent Declaration
  - ☐ 3. Simla Agreement
  - ☐ 4. Non-Nuclear Aggression Agreement

**Q.21** In which of the following cities was the Army Commanders Conference held in April 2025?

- Ans**
- ☒ 1. New Delhi
  - ☐ 2. Jodhpur
  - ☐ 3. Pune
  - ☐ 4. Chandigarh

**Q.22** What key emotion did the Extremists aim to arouse in people against British colonial rule?

- Ans**
- ☐ 1. Fear
  - ☐ 2. Sympathy
  - ☐ 3. Loyalty
  - ☒ 4. Indignation

**Q.23** India has been a World Trade Organization (WTO) member since \_\_\_\_.

- Ans**
- ☐ 1. 2005
  - ☐ 2. 2000
  - ☒ 3. 1995
  - ☐ 4. 1990

**Q.24** What is the primary reason for overexploitation of groundwater in Punjab and Haryana?

- Ans**
- ☐ 1. Excessive use of water for domestic consumption
  - ☒ 2. Cultivation of water-intensive crops like paddy
  - ☐ 3. Government restrictions on surface water use
  - ☐ 4. Presence of sandy soils with poor water retention

**Q.25** The Vardhan dynasty, was also known by which of the following names?

- Ans**
- ☐ 1. Gupta dynasty
  - ☒ 2. Pushyabhuti dynasty
  - ☐ 3. Nanda dynasty
  - ☐ 4. Maurya dynasty

**Q.26** Which of the following states introduced India's first AI Powered Real Time Forest alert system in May 2025?

- Ans**
- ☐ 1. Jharkhand
  - ☐ 2. Tamil Nadu
  - ☐ 3. Karnataka
  - ☒ 4. Madhya Pradesh

**Q.27** JD Vance was sworn in as the \_\_\_\_\_ Vice President of the United States in 2025.

- Ans**
- ☐ 1. 48<sup>th</sup>
  - ☒ 2. 50<sup>th</sup>
  - ☐ 3. 49<sup>th</sup>
  - ☐ 4. 51<sup>st</sup>

**Q.28** In which of the following years were the Montagu–Chelmsford Reforms introduced by the British Government in India to gradually establish self-governing institutions?

- Ans**
- ☐ 1. 1931
  - ☒ 2. 1919
  - ☐ 3. 1944
  - ☐ 4. 1923

**Q.29** Which drainage pattern resembles the branches of a tree and is common in rivers of the northern plains?

- Ans**
- ☒ 1. Dendritic
  - ☐ 2. Trellis
  - ☐ 3. Centripetal
  - ☐ 4. Radial

**Q.30** Which of the following Indian naval platforms took part in the Indo-Oman naval exercise Naseem-AI-Bahr held in October 2024?

- Ans**
- ☒ 1. INS Trikand and Dornier Maritime Patrol Aircraft
  - ☐ 2. INS Kolkata and Sea Guardian drone
  - ☐ 3. INS Shivalik and P-8I aircraft
  - ☐ 4. INS Vikrant and MiG-29K fighter jets

**Q.31** Which Chandela ruler is credited with the construction of the Kandariya Mahadev Temple situated in Khajuraho, Madhya Pradesh, India?

- Ans**
- ☐ 1. Yashovarman
  - ☐ 2. Kirttivarman
  - ☐ 3. Dhanga
  - ☒ 4. Vidyadhara

**Q.32** What declaration was made at the 2025 Global Media Dialogue on media ethics and AI?

- Ans**
- ☒ 1. WAVES Declaration
  - ☐ 2. NEUTRALITY Charter
  - ☐ 3. TRUTH Pact
  - ☐ 4. AI-TRUST Code

**Q.33** Which platform provides online learning for civil servants under Mission Karmayogi in India?

- Ans**
- ☒ 1. iGOT Karmayogi
  - ☐ 2. NISG Portal
  - ☐ 3. ePathshala
  - ☐ 4. SWAYAM

**Q.34** India's highway network is one of the largest in the world. Which scheme focuses on the development of highways, particularly in economic corridors?

- Ans**
- ☐ 1. PM Gram Sadak Yojana
  - ☐ 2. BharatNet
  - ☐ 3. Sagarmala
  - ☒ 4. Bharatmala Pariyojana

**Q.35** When was the Monetary Policy Framework Agreement (MPFA) signed between the Government of India and the Reserve Bank?

- Ans**
- ☐ 1. 14 August 2010
  - ☐ 2. 20 April 2018
  - ☐ 3. 8 December 2007
  - ☒ 4. 20 February 2015

**Q.36** Which of the following correctly describes a key function of Subordinate Courts in India?

- Ans**
- ☒ 1. Resolve civil and criminal disputes at the district level
  - ☐ 2. Interpret international treaties
  - ☐ 3. Review decisions of High Courts
  - ☐ 4. Draft laws for the State

**Q.37** The National eCourts Project, launched by the Department of Justice, is primarily aimed at:

- Ans**
- ☐ 1. creating new Central Administrative Tribunals
  - ☐ 2. building new court complexes in rural areas
  - ☐ 3. establishing a nationwide telecom system for police
  - ☒ 4. digitising and upgrading district and subordinate courts

**Q.38** What is the correct order of arrival of seismic waves at a seismograph after an earthquake?

- Ans**
- ☐ 1. Surface waves, P-waves, S-waves
  - ☐ 2. P-waves, surface waves, S-waves
  - ☐ 3. S-waves, P-waves, surface waves
  - ☒ 4. P-waves, S-waves, surface waves

**Q.39** Which of the following Buddhist texts is often called the 'Gita of Buddhism' for its importance and teachings?

- Ans**
- ☐ 1. Mahayana Sutra
  - ☒ 2. Dhammapada
  - ☐ 3. Vamsathapakasini
  - ☐ 4. Saddharmapundarika Sūtra

**Q.40** Which Fundamental Right protects citizens from being forced into labour or human trafficking?

- Ans**
- ☐ 1. Right to Freedom
  - ☐ 2. Right to Equality
  - ☐ 3. Right to Constitutional Remedies
  - ☒ 4. Right against Exploitation

#### Section : Mathematics

**Q.1** In  $\triangle ABC$ ,  $BD \perp AC$  at  $D$  and  $\angle DBC = 39^\circ$ .  $E$  is a point on  $BC$  such that  $\angle CAE = 16^\circ$ . What is the measure of  $\angle AEB$ ?

- Ans**
- ☐ 1.  $82^\circ$
  - ☐ 2.  $66^\circ$
  - ☒ 3.  $67^\circ$
  - ☐ 4.  $74^\circ$

Q.2 One-third of a journey is covered at a speed of 2 km/hr, the next one-third of the journey is covered at a speed of 87 km/hr and the remaining journey is covered at a speed of 53 km/hr. The average speed (in km/hr, rounded off to 1 decimal place) for the entire journey is:

- Ans
- ☐ 1. 2.7
  - ☒ 2. 5.7
  - ☐ 3. 8.3
  - ☐ 4. 5

Q.3 Find the value of  $5^{-23} \times 16^{-23} \times 21^{-23}$ .

- Ans
- ☐ 1.  $\frac{1}{1725^{23}}$
  - ☒ 2.  $\frac{1}{1680^{23}}$
  - ☐ 3.  $\frac{1}{1726^{23}}$
  - ☐ 4.  $\frac{1}{1634^{23}}$

Q.4 The number 814242541 is divisible by which of the following?

- Ans
- ☐ 1. 8
  - ☐ 2. 12
  - ☒ 3. 7
  - ☐ 4. 15

Q.5 I bought two speakers for ₹1,200. I sold the first one at a loss of 8% and the second at a gain of 22%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first speaker.

- Ans
- ☐ 1. 864
  - ☐ 2. 900
  - ☒ 3. 880
  - ☐ 4. 904

Q.6 Pipe A can fill a tank in 17 hours, pipe B can fill the same tank in 21 hours and pipe C can fill the same tank in 19 hours. The time taken by them to fill the same tank if they operate together is::

- Ans
- ☐ 1.  $13\frac{309}{1079}$  hours
  - ☐ 2.  $5\frac{309}{1079}$  hours
  - ☒ 3.  $6\frac{309}{1079}$  hours
  - ☐ 4.  $11\frac{309}{1079}$  hours

Q.7 By selling an article at  $\frac{4}{14}$  of its actual selling price, Akash incurs a loss of 30%.

If he sells it at 54% of its actual selling price, then the profit percentage is:

- Ans
- ☐ 1. 34.8%
  - ☐ 2. 32.6%
  - ☐ 3. 33.8%
  - ☒ 4. 32.3%

Q.8 Find the least number of square tiles required to completely cover a floor of dimensions 12.15 m by 11.34 m.

- Ans
- ☐ 1. 230
  - ☐ 2. 150
  - ☒ 3. 210
  - ☐ 4. 250

Q.9 Sapna invested ₹22,400 on simple interest, partly at 13% per annum and partly at 3% per annum. If she earns equal interests from the two investments after 7 years, then find the sum invested at 13% per annum (in ₹).

- Ans
- ☐ 1. 4,198
  - ☒ 2. 4,200
  - ☐ 3. 4,203
  - ☐ 4. 4,197

Q.10 What is the median of the following data?

57, 96, 60, 91, 69, 50, 72, 16, 78, 73, 55

- Ans
- ☐ 1. 70
  - ☐ 2. 69.5
  - ☒ 3. 69
  - ☐ 4. 68.5

Q.11 If the third proportional of 9 and 57 be x, then what is the value of x?

- Ans
- ☐ 1. 363
  - ☒ 2. 361
  - ☐ 3. 358
  - ☐ 4. 364

Q.12 An item is marked at ₹8,000. Two successive discounts of 10% and 15% are allowed. Find the equivalent single discount rate.

- Ans
- ☒ 1. 23.5%
  - ☐ 2. 22.5%
  - ☐ 3. 25.5%
  - ☐ 4. 24.5%

Q.13 A cylindrical rod has an outer curved surface area of  $1500 \text{ cm}^2$ . If the length of the rod is 68 cm, then the outer radius (in cm) of the rod, correct to two places of decimal, is:

$$\left( \text{Take } \pi = \frac{22}{7} \right)$$

- Ans
- ☒ 1. 3.51
  - ☐ 2. 6.61
  - ☐ 3. 3.87
  - ☐ 4. 3.69

Q.14 A sum of ₹625 amounts to ₹841 in 2 years at a certain rate of interest per annum, compounded annually. The rate of interest per annum is:

- Ans
- ☐ 1. 18%
  - ☐ 2. 19%
  - ☒ 3. 16%
  - ☐ 4. 17%



**Q.15** A man driving a car at a speed of 84 km/hr crosses a bridge in 1.6 minutes. Find the length of the bridge.

- Ans**
- ☒ 1. 2.24 km
  - ☐ 2. 1.81 km
  - ☐ 3. 2.46 km
  - ☐ 4. 1.82 km

**Q.16** Which of the following numbers is divisible by 5?

- Ans**
- ☐ 1. 61,75,753
  - ☐ 2. 65,67,359
  - ☐ 3. 71,32,954
  - ☒ 4. 70,48,030

**Q.17** 2 years ago, the age of a father was 22 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

- Ans**
- ☐ 1. 17
  - ☐ 2. 16
  - ☐ 3. 21
  - ☒ 4. 20

**Q.18** The sum of the squares of two consecutive even natural numbers is 2180. The sum of the numbers is:

- Ans**
- ☐ 1. 72
  - ☐ 2. 74
  - ☒ 3. 66
  - ☐ 4. 82

**Q.19** M and N start a business. M invests ₹35,000 more than N for 7 months and N invests for 5 months. M's share is ₹372 more than that of N, out of a total profit of ₹1,860. Find the capital contributed by M.

- Ans**
- ☐ 1. ₹5,35,000
  - ☐ 2. ₹6,25,000
  - ☐ 3. ₹6,00,000
  - ☒ 4. ₹5,25,000

**Q.20** Find the area of a triangle whose base is 28 cm and corresponding altitude is 15 cm.

- Ans**
- ☐ 1. 280 cm<sup>2</sup>
  - ☐ 2. 260 cm<sup>2</sup>
  - ☒ 3. 210 cm<sup>2</sup>
  - ☐ 4. 240 cm<sup>2</sup>

Q.21

The value of  $\frac{5}{4} + \left( \frac{1}{1 + \frac{4}{7}} \right) - \frac{3}{4}$  is

Ans

- ☐ 1.  $\frac{29}{32}$   
☐ 2.  $\frac{35}{12}$   
☒ 3.  $\frac{25}{22}$   
☐ 4.  $\frac{28}{19}$

Q.22 A number, when increased by 100%, gives 2790. The number is:

Ans

- ☐ 1. 697.5  
☐ 2. 2790  
☐ 3. 4185  
☒ 4. 1395

Q.23 Aarti, Anil, and Naveen invest ₹1,110, ₹1,760, and ₹1,230 respectively to start a business. If the profit at the end of the year is ₹1,620, then what is the share of Naveen in the profit?

Ans

- ☐ 1. ₹487  
☒ 2. ₹486  
☐ 3. ₹483  
☐ 4. ₹488

Q.24 The marked price of a watch is ₹2,860. A man bought the watch for ₹2,390.96, after getting two successive discounts, one of which is 12%. What is rate of the other discount?

Ans

- ☐ 1. 8%  
☐ 2. 7%  
☒ 3. 5%  
☐ 4. 6%

Q.25 In an election between two candidates 80% of the registered voters cast their vote and 15% of the votes polled were found invalid. The winning candidate got 60% of the valid votes and won the election by a margin of 1394 votes. How many voters were registered?

Ans

- ☐ 1. 10251  
☒ 2. 10250  
☐ 3. 10252  
☐ 4. 10248

Q.26 Anjani can do a certain piece of work in 24 days. Anjani and Khushbu can together do the same work in 20 days, and Anjani, Khushbu and Sushmita can do the same work together in 8 days. In how many days can Anjani and Sushmita do the same work?

Ans

- ☐ 1.  $\frac{57}{7}$   
☐ 2.  $\frac{61}{8}$   
☒ 3.  $\frac{60}{7}$   
☐ 4.  $\frac{54}{9}$

Q.27 The value of  $\sqrt{196} + \sqrt{0.0324} - \sqrt{6.76} =$

- Ans ☐ 1. 6.44  
☒ 2. 11.58  
☐ 3. 4.64  
☐ 4. 2.41

Q.28 Evaluate:  $\frac{\sin^2 40^\circ + \sin^2 50^\circ}{\cos^2 40^\circ + \cos^2 50^\circ} - \frac{\sec^2 50^\circ - \cot^2 40^\circ}{\cos^2 20^\circ + \cos^2 70^\circ}$

- Ans ☐ 1. -1  
☐ 2. -2  
☒ 3. 0  
☐ 4. 2

Q.29 Simplify:  $2\left(\left(\frac{3}{2}\right)x^2 - 25x + 14\right) - 3(x^2 + 4x - 13)$ .

- Ans ☐ 1.  $62x - 67$   
☐ 2.  $-62x - 67$   
☒ 3.  $-62x + 67$   
☐ 4.  $62x + 67$

Q.30 The average runs scored by a batsman in 23 matches is 41. In the next 10 matches, the batsman scored an average of 15 runs. Find his average runs scored (rounded off to two decimal places) in all the 33 matches.

- Ans ☐ 1. 32.12  
☐ 2. 34.12  
☐ 3. 35.12  
☒ 4. 33.12

Section : General Intelligence and Reasoning

Q.1 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:**

Some trucks are cars.  
Some cars are bottles.

**Conclusions:**

(I) Some trucks are bottles.  
(II) All bottles are cars.

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

Q.2 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

YTQ UPM QLI MHE ?

- Ans ☐ 1. IEB  
☐ 2. IDB  
☐ 3. IEA  
☒ 4. IDA

Q.3 Seven boxes C, D, E, M, N, O and P are kept one over the other but not necessarily in the same order.  
Only D is kept above N. Only two boxes are kept between N and O. Only P is kept below C. E is not kept immediately above O.  
How many boxes are kept between M and P?

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

Q.4 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:**

Some pepper are spicy.  
All spicy are chilly.

**Conclusions:**

(I): Some pepper are chilly.

(II): All chilly are spicy.

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

Q.5 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$28 + 42 \times 2 - 4 \div 3 = ?$$

- Ans
- ☐ 1. 31
  - ☐ 2. 37
  - ☒ 3. 19
  - ☐ 4. 24

Q.6 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 3851764, what will be the sum of the digits which are third from the left and third from the right in the new number thus formed?

- Ans
- ☒ 1. 16
  - ☐ 2. 10
  - ☐ 3. 7
  - ☐ 4. 8

Q.7 What should come in place of the question mark (?) in the given series?

1500, 3005, 6015, 12035, 24075, ?

- Ans
- ☐ 1. 48015
  - ☒ 2. 48155
  - ☐ 3. 48200
  - ☐ 4. 48105

Q.8 In a certain code language, 'WIRE' is coded as '4726' and 'EAST' is coded as '5173'.  
What is the code for 'E' in the given code language?

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

**Q.9** Darshan starts from Point Y and drives 6 km towards west. He then takes a right turn and drives 8 km. He then turns right and drives 11 km. He takes a final right turn, drives 8 km and stops at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90-degree turns only, unless specified.)

- Ans**
- ☐ 1. 4 km towards east
  - ☐ 2. 4 km towards north
  - ☒ 3. 5 km towards west
  - ☐ 4. 6 km towards south

**Q.10** What should come in place of the question mark (?) in the given series?

76 , 87 , 101 , 118 , 138 , ?

- Ans**
- ☐ 1. 164
  - ☐ 2. 159
  - ☐ 3. 162
  - ☒ 4. 161

**Q.11** 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. PTN
  - ☐ 2. JNH
  - ☐ 3. MQK
  - ☒ 4. GKF

**Q.12** 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 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.)

(2, 49, 15)  
(29, 112, 18)

- Ans**
- ☐ 1. (39, 134, 20)
  - ☒ 2. (30, 75, 5)
  - ☐ 3. (11, 63, 15)
  - ☐ 4. (28, 106, 18)

**Q.13** H, I, J, P, Q, R and S are sitting around a circular table facing the centre of the table. I is an immediate neighbour of both Q and H. H sits third to the left of P. R sits to the immediate left of P. J is not an immediate neighbour of H. Who sits third to the left of S?

- Ans**
- ☐ 1. J
  - ☐ 2. P
  - ☒ 3. Q
  - ☐ 4. H

**Q.14** All 30 students in a class are standing in a row facing north. Alok is 12<sup>th</sup> from the right end while Aman is 16<sup>th</sup> from the left end. How many students stand between Alok and Aman?

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

**Q.15** If 3 is added to each odd digit and 1 is subtracted from each even digit in the number 6243514, how many digits will appear more than once in the new number thus formed?

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

**Q.16** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.  
(NOTE: All numbers are single digit numbers only.)

(Left) 1 \$ 2 6 7 3 \* & 4 μ 2 5 % 9 0 2 3 6 # @ 8 (Right)

If all the symbols are dropped from the series, which of the following numbers will be the fifth from the left?

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

**Q.17** If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7431856, which of the following digits will be second from the right in the new number thus formed?

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

**Q.18** What should come in place of the question mark (?) in the given series based on the English alphabetical order?

KPV RWC YDJ FKQ ?

- Ans**
- ☐ 1. MXR
  - ☐ 2. MYU
  - ☒ 3. MRX
  - ☐ 4. MUY

**Q.19** In a certain code language, 'FATE' is coded as '2357' and 'TURN' is coded as '4126'. What is the code for 'T' in that language?

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

**Q.20** Select the triad that follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

MT-OV-QS  
OV-QX-SU

- Ans**
- ☐ 1. HO-JQ-LM
  - ☐ 2. GO-JQ-LM
  - ☒ 3. HO-JQ-LN
  - ☐ 4. GO-IQ-LM

**Q.21** 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. TM-OS
  - ☐ 2. SL-NQ
  - ☐ 3. XQ-SV
  - ☐ 4. VO-QT

**Q.22** Rajesh, Heera, Neetu, Santosh, Pooja and Arti are sitting around a circle, facing the centre. Rajesh sits second to the left of Arti. Arti sits third to the right of Pooja. Neetu sits second to the left of Santosh. Who sits to the immediate right of Santosh?

- Ans**
- ☐ 1. Pooja
  - ☐ 2. Arti
  - ☒ 3. Heera
  - ☐ 4. Rajesh

**Q.23** What should come in place of the question mark (?) in the given series?

35 50 70 95 125 ?

- Ans**
- ☐ 1. 175
  - ☒ 2. 160
  - ☐ 3. 165
  - ☐ 4. 170

**Q.24** In a row of people all facing North, Navya is 12<sup>th</sup> from the left end. Uma is 19<sup>th</sup> from the left end. Uma is exactly between Navya and Dilip. If Dilip is 13<sup>th</sup> from the right end of the line, how many people are there in the row?

- Ans**
- ☐ 1. 35
  - ☐ 2. 37
  - ☐ 3. 34
  - ☒ 4. 38

**Q.25** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) @ 7 8 % \* Ω 2 1 # 4 3 0 π 9 μ 7 8 Ω # 9 β (Right)

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

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

**Q.26** 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. FL - PG
  - ☐ 2. HN - RI
  - ☐ 3. DJ - NE
  - ☒ 4. BH - LD

**Q.27** Gyamel starts from Point A and drives 20 km towards West. He then takes a left turn, drives 18 km, turns left and drives 23 km. He then takes a left turn and drives 25 km. He takes a final left turn, drives 3 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. 5 km to the West
  - ☐ 2. 4 km to the South
  - ☒ 3. 7 km to the South
  - ☐ 4. 6 km to the North

**Q.28** A is the sister of H. H is the father of E. E is the son of N. M is the mother of N. How is A related to N?

- Ans**
- ☐ 1. Daughter's husband's mother
  - ☐ 2. Daughter's husband's sister
  - ☐ 3. Husband's mother
  - ☒ 4. Husband's sister

**Q.29** In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.  
GAIN - AIGN - NIAG  
SINE - INSE - ENIS

- Ans**
- ☐ 1. GAME - AMGE - AMEG
  - ☐ 2. MONK - OMNK - KONM
  - ☐ 3. SEAT - SAET - TAES
  - ☒ 4. RICE - ICRE - ECIR

**Q.30** In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.

MARK - MKRA - KRAM  
PLAY - PYAL - YALP

- Ans**
- ☐ 1. TRAY - TRYA - RAYT
  - ☐ 2. FIRE - IFRE - EIRF
  - ☐ 3. GATE - GTAE - ETAG
  - ☒ 4. BUSH - BHSU - HSUB