



## 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	28/08/2025
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** Who among the following was the runner-up defeated by Viktor Axelsen in his third India Open victory in the 2025 India Open Badminton Tournament in January 2025?

- Ans**
- ☒ 1. Anthony Sinisuka Ginting
  - ☒ 2. Lakshay Sen
  - ☒ 3. Lee Cheuk Yiu
  - ☒ 4. Chou Tien Chen

**Q.2** In which of the following years was Delhi Metro Rail Corporation established?

- Ans**
- ☒ 1. 1992
  - ☒ 2. 1995
  - ☒ 3. 1999
  - ☒ 4. 1997

**Q.3** What is the full name of MNREGA in the Indian policy context?

- Ans**
- ☒ 1. Modern National Rural Employment Growth Act
  - ☒ 2. Mahatma Gandhi National Rural Employment Guarantee Act
  - ☒ 3. Ministry for National Rural Employment Growth Agenda
  - ☒ 4. Mainstream National Rural Education Guarantee Act

**Q.4** Which of the following constitutional mechanisms ensures political representation for Scheduled Castes and Scheduled Tribes in the Indian Parliament?

- Ans**
- ☒ 1. Article 15 and 16
  - ☒ 2. Article 341 and 342
  - ☒ 3. Article 330 and 332
  - ☒ 4. Article 338 and 339

**Q.5** The DBT-funded project that first produced a GMP-grade viral vector for Indian CAR-T research was supported under which flagship scheme?

- Ans**
- ☒ 1. Biotechnology Ignition Grant
  - ☒ 2. PACE
  - ☒ 3. National Biopharma Mission
  - ☒ 4. Atal Jai Anusandhan

**Q.6** Which of the following rivers flows through a small part of the Great Indian Desert?

- Ans**
- ☐ 1. Ravi
  - ☐ 2. Mahanadi
  - ☐ 3. Satluj
  - ☒ 4. Luni

**Q.7** In which of the following years did Vasco da Gama land in Calicut on the Malabar Coast for the second time?

- Ans**
- ☐ 1. 1509
  - ☒ 2. 1502
  - ☐ 3. 1505
  - ☐ 4. 1511

**Q.8** The Pochampad Dam is also known as \_\_\_\_\_.

- Ans**
- ☐ 1. Hirakud Project
  - ☒ 2. Sri Rama Sagar Project
  - ☐ 3. Bhakra Nangal Project
  - ☐ 4. Nagarjuna Sagar Project

**Q.9** Which of the following Bengali writers composed the famous novel Anandamath?

- Ans**
- ☐ 1. Sarat Chandra Chattopadhyay
  - ☐ 2. Rabindranath Tagore
  - ☐ 3. Kazi Nazrul Islam
  - ☒ 4. Bankim Chandra Chattopadhyay

**Q.10** At what age did Gautama Buddha attain Enlightenment (Nirvana) at Bodh Gaya in Bihar?

- Ans**
- ☐ 1. 49 years
  - ☐ 2. 42 years
  - ☒ 3. 35 years
  - ☐ 4. 29 years

**Q.11** After a hundred years of conquest and administration, the English East India Company faced a massive uprising that took place in \_\_\_\_\_.

- Ans**
- ☐ 1. 1856
  - ☒ 2. 1857
  - ☐ 3. 1854
  - ☐ 4. 1855

**Q.12** How many facial bones are there in the face skeleton, each with its own anatomical landmarks and stage of development?

- Ans**
- ☒ 1. 14
  - ☐ 2. 18
  - ☐ 3. 11
  - ☐ 4. 21

**Q.13** What was the theme for National Safety Day, observed on 4 March 2025?

- Ans**
- ☒ 1. Safety & Well-being Crucial for Viksit Bharat
  - ☐ 2. Safety Awareness: A National Priority
  - ☐ 3. Safety First: Every Day
  - ☐ 4. Secure India: Secure Future

**Q.14** In the first phase of the Green Revolution (approximately mid 1960s upto mid 1970s), the use of HYV seeds was restricted to the more affluent states such as \_\_\_\_\_.

- Ans**
- ☐ 1. Rajasthan, Gujarat and Kerala
  - ☐ 2. Bihar, Odisha and West Bengal
  - ☐ 3. Maharashtra, Uttar Pradesh and Assam
  - ☒ 4. Punjab, Andhra Pradesh and Tamil Nadu

**Q.15** During the Later Vedic period, which of the following animals was specifically mentioned as useful for ploughing swampy land?

- Ans**
- ☐ 1. Cow
  - ☒ 2. Buffalo
  - ☐ 3. Horse
  - ☐ 4. Elephant

**Q.16** According to the Climate Risk Index 2025, what is India's long-term rank (1993–2022) among the most affected countries by extreme weather events?

- Ans**
- ☐ 1. 12<sup>th</sup>
  - ☐ 2. 9<sup>th</sup>
  - ☐ 3. 3<sup>rd</sup>
  - ☒ 4. 6<sup>th</sup>

**Q.17** Andhra Pradesh was formed in 1953 by separating Telugu-speaking areas from which of the following states?

- Ans**
- ☒ 1. Madras
  - ☐ 2. Kerala
  - ☐ 3. Karnataka
  - ☐ 4. Tamil Nadu

**Q.18** The Koyna Project is constructed on a tributary of the River Krishna in which state?

- Ans**
- ☐ 1. Karnataka
  - ☐ 2. Tamil Nadu
  - ☒ 3. Maharashtra
  - ☐ 4. Andhra Pradesh

**Q.19** Which advanced radar systems are being deployed under a ₹5,700-crore contract signed in March 2024 and operational from April 2025 to strengthen India's air defence network?

- Ans**
- ☐ 1. Over-the-horizon radars
  - ☐ 2. Synthetic aperture radars
  - ☐ 3. Passive electronically scanned array radars
  - ☒ 4. High-Power Radars (HPR)

**Q.20** Which Fundamental Right was removed from the Indian Constitution by the 44<sup>th</sup> Amendment Act, 1978?

- Ans**
- ☒ 1. Right to Property
  - ☐ 2. Right to Freedom
  - ☐ 3. Right to Education
  - ☐ 4. Right to Equality

**Q.21 Who is the Governor of the Reserve Bank of India as of May 2025?**

- Ans**
- ☐ 1. Shaktikanta Das
  - ☒ 2. Sanjay Malhotra
  - ☐ 3. Raghuram Rajan
  - ☐ 4. Urjit Patel

**Q.22 The UK–India Free Trade Agreement that concluded on 6 May 2025, primarily aims to reduce barriers to which sector listed first in its conclusion summary?**

- Ans**
- ☐ 1. Agricultural commodities
  - ☐ 2. Medicinal products
  - ☒ 3. Digital trade and e-commerce
  - ☐ 4. Legal services

**Q.23 Which of the following is the correct method to rename a file or folder using the left mouse button?**

- Ans**
- ☐ 1. Click and drag the file → Rename it in the pop-up window
  - ☐ 2. Double-click the file name → Type the new name → Press Esc
  - ☒ 3. Select the file → Press F2 or click once on the name → Type new name → Press Enter
  - ☐ 4. Select the file → Press F1 → Type new name → Press Enter

**Q.24 In which event, at The Ten 2025 athletics meet in San Juan Capistrano, USA, did Gulveer Singh break his own national record in March 2025?**

- Ans**
- ☐ 1. Marathon
  - ☐ 2. 5,000m race
  - ☐ 3. 3,000m steeplechase
  - ☒ 4. 10,000m race

**Q.25 Which theory suggests that planets were formed out of a cloud of material surrounding a young Sun?**

- Ans**
- ☐ 1. Collision Theory
  - ☐ 2. Binary Star Hypothesis
  - ☒ 3. Nebular Hypothesis
  - ☐ 4. Big Bang Theory

**Q.26 Which of the following statements about the Right to Property in India is correct?**

- Ans**
- ☐ 1. It is a fundamental right under Article 31 (now omitted).
  - ☐ 2. It was completely abolished by the Forty-Second Amendment (1976).
  - ☐ 3. It is a fundamental right under Article 32 of the Constitution.
  - ☒ 4. It is no longer a fundamental right.

**Q.27 In 2025, who launched 'Srjanam', India's first indigenous automated bio medical waste treatment plant?**

- Ans**
- ☐ 1. HD Kumaraswamy
  - ☒ 2. Dr. Jitendra Singh
  - ☐ 3. Nitin Jairam Gadkari
  - ☐ 4. Manohar Lal

**Q.28 The first human gene therapy experiment, which began in September 1990, used a retroviral vector against which deficiency?**

- Ans**
- ☐ 1. X-Linked Adrenoleukodystrophy
  - ☐ 2. Mitochondrial encephalopathy
  - ☐ 3. 3-Methylglutaconic Aciduria
  - ☒ 4. Adenosine deaminase

**Q.29** In which year was the 2030 Agenda for Sustainable Development adopted by the United Nations Member States?

- Ans**
- ☐ 1. 2017
  - ☒ 2. 2015
  - ☐ 3. 2016
  - ☐ 4. 2014

**Q.30** As of December 2024, what is the age eligibility of player to avail facility of Retired Sportsperson Empowerment Training (RESET) Programme?

- Ans**
- ☐ 1. 18-40 years
  - ☐ 2. 20-45 years
  - ☒ 3. 20-50 years
  - ☐ 4. 25-55 years

**Q.31** For a spontaneous process at constant temperature and pressure, the Gibbs free energy change is \_\_\_\_\_.

- Ans**
- ☐ 1.  $\Delta G = 0$
  - ☐ 2.  $\Delta G > 0$
  - ☒ 3.  $\Delta G < 0$
  - ☐ 4.  $\Delta G = \Delta H + T\Delta S$

**Q.32** As per the Ministry of Defence's Year End Review 2024 (PIB), what is the number of C-295 aircraft to be indigenously built by TASL in India?

- Ans**
- ☐ 1. 72
  - ☐ 2. 56
  - ☒ 3. 40
  - ☐ 4. 65

**Q.33** Which part of the Indian Constitution deals with special provisions for Scheduled Castes, Scheduled Tribes, and other backwards classes?

- Ans**
- ☐ 1. Part III
  - ☐ 2. Part IX
  - ☒ 3. Part XVI
  - ☐ 4. Part IV

**Q.34** Which of the following correctly differentiates between RAM and ROM?

- Ans**
- ☐ 1. ROM performs all logical operations, while RAM controls input devices
  - ☐ 2. RAM is permanent memory while ROM is volatile
  - ☒ 3. RAM loses its content when the computer is turned off, while ROM retains its data
  - ☐ 4. ROM is used to store data temporarily during program execution

**Q.35** What minimum legal practice experience did the Supreme Court mandate on 20 May 2025 for applicants to the Civil Judge (Junior Division) post?

- Ans**
- ☒ 1. Three years of legal practice experience
  - ☐ 2. Four years of legal practice experience
  - ☐ 3. One year of legal practice experience
  - ☐ 4. Two years of legal practice experience

**Q.36** Which country ranked 10<sup>th</sup> in the Climate Change Performance Index (CCPI) 2025 report released at the annual UN climate conference in Baku?

- Ans**
- ☐ 1. Brazil
  - ☐ 2. China
  - ☐ 3. South Africa
  - ☒ 4. India

**Q.37** The \_\_\_\_\_ developed 32-bit microprocessors for space applications named VIKRAM3201 and KALPANA3201.

- Ans**
- ☒ 1. Indian Space Research Organization
  - ☐ 2. European Space Agency
  - ☐ 3. National Aeronautics and Space Administration
  - ☐ 4. Japan Aerospace Exploration Agency

**Q.38** In which of the following years was the Bharatmala Pariyojana approved by the Government of India covering a length of 34,800 km to improve connectivity and reduce logistics cost in the country?

- Ans**
- ☐ 1. 2014
  - ☒ 2. 2017
  - ☐ 3. 2024
  - ☐ 4. 2022

**Q.39** Which of the following sectors contributed significantly to India's GDP growth after the 1991 reforms?

- Ans**
- ☐ 1. Agriculture
  - ☐ 2. Public sector enterprises
  - ☒ 3. Services sector
  - ☐ 4. Cottage industries

**Q.40** Sharing borders with the states of Kerala and Karnataka, Mudumalai National Park of Tamil Nadu is a part of which biosphere reserve of India?

- Ans**
- ☒ 1. Nilgiri Biosphere Reserve
  - ☐ 2. Kangchendzonga Biosphere Reserve
  - ☐ 3. Agasthyamalai Biosphere Reserve
  - ☐ 4. Nokrek Biosphere Reserve

#### Section : Mathematics

**Q.1** The average weight of Gopal, Akshay and Atul is 45 kg. If the average weight of Gopal and Akshay is 44 kg and that of Akshay and Atul is 46 kg, then the weight of Akshay (in kg) is:

- Ans**
- ☐ 1. 65
  - ☐ 2. 55
  - ☐ 3. 60
  - ☒ 4. 45

**Q.2** What smallest number should be added to 74978 so that the sum is completely divisible by 24?

- Ans**
- ☒ 1. 22
  - ☐ 2. 17
  - ☐ 3. 20
  - ☐ 4. 26

Q.3

The value of  $8^2 + \sqrt{9^2} - 4\sqrt{25} - 14$  is

Ans

✓ 1. 39

✗ 2. 45

✗ 3. 49

✗ 4. 48

Q.4

A number, when increased by 80%, gives 2520. The number is:

Ans

✗ 1. 4200

✓ 2. 1400

✗ 3. 2800

✗ 4. 700

Q.5

The LCM of  $4^3 \times 6^2 \times 15$ ,  $4^2 \times 15^2 \times 19$  and  $6^3 \times 15^2 \times 19^2$  is:

Ans

✗ 1.  $2^8 \times 3^4 \times 5^2 \times 19^2$ ✗ 2.  $2^8 \times 3^5 \times 5^3 \times 19^2$ ✓ 3.  $2^8 \times 3^5 \times 5^2 \times 19^2$ ✗ 4.  $2^9 \times 3^5 \times 5^2 \times 19^2$ 

Q.6

If one interior angle of a regular polygon is greater than its exterior angle by  $144^\circ$ , how many sides does the polygon have?

Ans

✗ 1. 21

✗ 2. 19

✗ 3. 18

✓ 4. 20

Q.7

Pipe P can fill  $\frac{5}{7}$  part of a tank in 30 hours, and pipe Q can fill  $\frac{4}{7}$  part of the same tank in 12 hours.

Both P and Q were kept open for 7 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in 9 hours. Pipes P, Q and R together can fill the empty tank in:

Ans

✗ 1. 56 hours

✗ 2. 82 hours

✗ 3. 78 hours

✓ 4. 63 hours

Q.8

Anshuman and Kunal together invested ₹48,300 in a business. At the end of the year, out of a total profit of ₹14,000, Kunal's share was ₹6,000. What was the difference between their investments?

Ans

✗ 1. ₹5,940

✗ 2. ₹6,500

✗ 3. ₹7,640

✓ 4. ₹6,900

Q.9

Simplify:  $x(8x - 7) + 7(x^2 - 5) + 14$

Ans

✗ 1.  $-15x^2 - 7x + 21$ ✓ 2.  $15x^2 - 7x - 21$ ✗ 3.  $-15x^2 - 7x - 21$ ✗ 4.  $15x^2 - 7x + 21$

**Q.10** Yash travels 152 km at 38 km/hr, the next 189 km at 63 km/hr and the next 375 km at 75 km/hr. What is his average speed (in km/hr) for the whole journey? (Round off your answer to two decimal places)

- Ans**
- ☒ 1. 59.67
  - ☐ 2. 51.83
  - ☐ 3. 58.22
  - ☐ 4. 70.03

**Q.11** The cost of 9 pens and 9 pencils is ₹252. If the cost of a pen decreases by ₹1 and the cost of a pencil increases by ₹3, then the cost of 13 pens and 3 pencils is ₹100. What is the original cost of 10 pens and 19 pencils?

- Ans**
- ☐ 1. ₹513
  - ☐ 2. ₹517
  - ☒ 3. ₹514
  - ☐ 4. ₹516

**Q.12** Find the value of:  $[428 \div \{17 + 8 \times (5 - 7)\}]$ .

- Ans**
- ☒ 1. 428
  - ☐ 2. 429
  - ☐ 3. 427
  - ☐ 4. 426

**Q.13** The sum of two numbers is 121 and their L.C.M. is 264. What are the two numbers?

- Ans**
- ☐ 1. 81, 40
  - ☐ 2. 86, 35
  - ☒ 3. 88, 33
  - ☐ 4. 93, 28

**Q.14** If the interest earned during the 2<sup>nd</sup> year on a certain sum is ₹1,760, and the rate of interest is 10% per annum compounded annually, then the sum is:

- Ans**
- ☐ 1. ₹16,405
  - ☐ 2. ₹15,495
  - ☒ 3. ₹16,000
  - ☐ 4. ₹15,990

**Q.15** A dealer wants to make a 20% profit on a smart watch that costs him ₹1,575. To attract customers, he plans to offer a 10% discount on the listed price. At what price should he list the smart watch to achieve his desired profit?

- Ans**
- ☒ 1. ₹2,100
  - ☐ 2. ₹1,918
  - ☐ 3. ₹1,654
  - ☐ 4. ₹1,890

**Q.16** Find the simple interest (in ₹) if a sum of ₹400 is borrowed for 4.5 years at 20% per annum rate of interest.

- Ans**
- ☐ 1. 460
  - ☒ 2. 360
  - ☐ 3. 410
  - ☐ 4. 340



Q.17 6 years ago, the age of a father was 34 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

- Ans
- ☐ 1. 23
  - ☒ 2. 28
  - ☐ 3. 26
  - ☐ 4. 24

Q.18 What is the value of the given expression?

$$\frac{\sin^4 A - \cos^4 A + 1}{1 + \frac{1}{\tan^2 A}}$$

- Ans
- ☒ 1.  $2\sin^4 A$
  - ☐ 2.  $\frac{\sin A \cdot \cos A}{\tan^2 A}$
  - ☐ 3.  $2\sin^2 A + \tan^2 A$
  - ☐ 4.  $2\sin A \cdot \cos A$

Q.19 Pipe A can fill a tank in 16 hours, pipe B can fill the same tank in 21 hours and pipe C can fill the same tank in 15 hours. The time taken by them to fill the same tank if they operate together is::

- Ans
- ☐ 1.  $7\frac{65}{99} \text{ hours}$
  - ☒ 2.  $5\frac{65}{99} \text{ hours}$
  - ☐ 3.  $8\frac{65}{99} \text{ hours}$
  - ☐ 4.  $6\frac{65}{99} \text{ hours}$

Q.20 Five solid cubes, each of volume  $512000 \text{ cm}^3$ , are joined end to end to form a cuboid. What is the lateral surface area (in  $\text{cm}^2$ ) of the cuboid?

- Ans
- ☐ 1. 76949
  - ☐ 2. 76903
  - ☒ 3. 76800
  - ☐ 4. 76820

Q.21 The marks scored by 10 students are given below.

19, 15, 10, 14, 13, 18, 19, 19, 11, 11

The mode of the data is:

- Ans
- ☒ 1. 19
  - ☐ 2. 20
  - ☐ 3. 15
  - ☐ 4. 10

**Q.22** A shopkeeper lists the price of a fan at 50% above its cost price and offers a 30% discount on its list price. If he earns a profit of ₹91, then what is the list price (in ₹) of the fan?

- Ans**
- ☐ 1. 2,774
  - ☐ 2. 2,697
  - ☒ 3. 2,730
  - ☐ 4. 3,025

**Q.23** Which of the following numbers divides 2,45,015?

- Ans**
- ☐ 1. 2
  - ☐ 2. 11
  - ☐ 3. 15
  - ☒ 4. 5

**Q.24** If the third proportional of 9 and 51 be x, then what is the value of x?

- Ans**
- ☐ 1. 287
  - ☐ 2. 288
  - ☐ 3. 291
  - ☒ 4. 289

**Q.25** The marked price of an article is ₹4,500. It is sold at successive discounts of 25% and 20%. Find the selling price of the article (in ₹).

- Ans**
- ☒ 1. 2,700
  - ☐ 2. 2,800
  - ☐ 3. 2,750
  - ☐ 4. 2,900

**Q.26** Mahesh bought some pens at the rate of ₹150 a dozen. He sold them for ₹44 each. His profit percentage is \_\_\_\_%.

- Ans**
- ☐ 1. 256
  - ☐ 2. 250
  - ☐ 3. 254
  - ☒ 4. 252

**Q.27** A toy designer is making a spherical ball with a radius of 6 cm. What is the surface area of the ball? (Use  $\pi = 3.14$ )

- Ans**
- ☐ 1. 678.24 cm<sup>2</sup>
  - ☐ 2. 301.44 cm<sup>2</sup>
  - ☒ 3. 452.16 cm<sup>2</sup>
  - ☐ 4. 282.74 cm<sup>2</sup>

**Q.28** The population of a district is 374000, out of which 170000 are males. 78% of the population is literate. If 72% males are literate, then what percentage of females are literate?

- Ans**
- ☐ 1. 85%
  - ☒ 2. 83%
  - ☐ 3. 81%
  - ☐ 4. 80%

**Q.29** Arjun and Malaika have to travel from Delhi to Kanpur in their respective cars. Arjun is driving at 140 km/hr while Malaika is driving at 65 km/hr. Find the time taken by Malaika to reach Kanpur if Arjun takes 13 hours.

- Ans**
- ☐ 1. 25 hours
  - ☐ 2. 34 hours
  - ☐ 3. 26 hours
  - ☒ 4. 28 hours

**Q.30** Anand, Preeti and Dev invested ₹1,310, ₹1,350 and ₹1,140, respectively to start a business. If the profit at the end of the year is ₹1,630, what is Dev's share of the profit?

- Ans**
- ☐ 1. ₹488
  - ☐ 2. ₹487
  - ☒ 3. ₹489
  - ☐ 4. ₹490

Section : General Intelligence and Reasoning

**Q.1** What should come in place of the question mark (?) in the given series?

27 31 40 56 81 ?

- Ans**
- ☐ 1. 121
  - ☐ 2. 120
  - ☐ 3. 118
  - ☒ 4. 117

**Q.2** In a certain code language,  
A \$ B means 'A is the son of B'  
A + B means 'A is the brother of B'  
A @ B means 'A is the wife of B'  
A ÷ B means 'A is the father of B'  
Based on the above, how is E related to N if 'E @ F \$ G ÷ M + N'?

- Ans**
- ☐ 1. Brother's daughter
  - ☒ 2. Brother's wife
  - ☐ 3. Wife
  - ☐ 4. Daughter

**Q.3** What should come in place of the question mark (?) in the given series based on the English alphabetical order?

WVH BAM GFR LKW ?

- Ans**
- ☒ 1. QPB
  - ☐ 2. QBP
  - ☐ 3. QWE
  - ☐ 4. QEW

**Q.4** 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. PT-KQ
  - ☐ 2. JN-EK
  - ☐ 3. MQ-HN
  - ☒ 4. SW-NU





**Q.5** 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.

**Statements:**

All letters are mails.  
All schedules are mails.

**Conclusions:**

- (I) Some letters are schedules.  
(II) Some mails are schedules.

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





**Q.6** 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.)

(16, 63, 16)  
(36, 111, 4)

**Ans**  1. (47, 144, 4)  
 2. (48, 162, 15)  
 3. (44, 155, 20)  
 4. (1, 12, 6)

**Q.7** If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '–', what will come in place of the question mark (?) in the following equation?





48 D 14 B 3 C 27 A 3 = ?

**Ans**  1. 24  
 2. 31  
 3. 15  
 4. 37

**Q.8** 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. RXCJ  
 2. OUZG  
 3. KQVC  
 4. NTYE

**Q.9** BGLY is related to DJNB in a certain way based on the English alphabetical order. In the same way, JSTK is related to LVVN. To which of the given options is PBZT related, following the same logic?

**Ans**  1. RWBY  
 2. REWB  
 3. REBW  
 4. RWYI

**Q.10** Seven people, I, J, K, L, M, N and O, are sitting in a row, facing north. Only J sits to the left of O. Only four people sit between J and I. Only K sits between M and N, and M is not an immediate neighbor of I. Who sits at the extreme right of the line?

- Ans**
- ☐ 1. M
  - ☒ 2. L
  - ☐ 3. O
  - ☐ 4. I

**Q.11** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

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

If all the symbols are dropped from the series, which of the following will be fourth from the right?

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

**Q.12** Rahul starts from Point Y and drives 14 km towards the north. He then takes a right turn, drives 6 km, then he turns right and drives 20 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 6 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 the east
  - ☐ 2. 6 km towards the north
  - ☒ 3. 6 km towards the east
  - ☐ 4. 4 km towards the north

**Q.13** RUWU is related to YBDB in a certain way based on the English alphabetical order. In the same way, JMOM is related to QTVT. To which of the given options is TWYW related, following the same logic?

- Ans**
- ☐ 1. ADED
  - ☐ 2. ACED
  - ☒ 3. ADFD
  - ☐ 4. AEEL

**Q.14** In a certain code language, 'reading is important' is written as 'pb mk lo' and 'is it raining' is coded as 'jo mt pb'. How is 'is' coded in the given language?

- Ans**
- ☐ 1. lo
  - ☐ 2. mk
  - ☐ 3. jo
  - ☒ 4. pb

**Q.15** Seven boxes V, W, X, Y, Z, Q and R are kept one over the other but not necessarily in the same order. Only two boxes are kept below Z. Only one box is kept above W. Only one box is kept between W and Q. V is kept immediately above Y. R is kept at some place below X. How many boxes are kept between X and V?

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

**Q.16** Seven people, I, J, K, L, P, Q and R are sitting in a row, facing north. Only J sits to the left of P. Only four people sit between J and I. Only K sits between R and Q. R is not an immediate neighbour of I. Who sits at the extreme right end of the line?

- Ans**
- ☐ 1. R
  - ☒ 2. L
  - ☐ 3. K
  - ☐ 4. I

**Q.17** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

JMR11 KNS20 LOT29 MPU38 ?

- Ans**
- ☐ 1. NQU42
  - ☒ 2. NQV47
  - ☐ 3. NQU46
  - ☐ 4. NQV56

**Q.18** If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7453186, how many digits will appear more than once in the new number thus formed?

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

**Q.19** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$57 \times 3 - 11 \div 7 + 42 = ?$$

- Ans**
- ☒ 1. 54
  - ☐ 2. 50
  - ☐ 3. 52
  - ☐ 4. 56

**Q.20** In a certain code language, 'BLUE' is coded as '7524' and 'UNIT' is coded as '1356'. What is the code for 'U' in the given code language?

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

**Q.21** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 3 4 7 # # # 5 \* £ 8 2 £ & € 2 \$ £ @ 3 # 7 & (Right)

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

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

**Q.22** If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 91526374, what will be the sum of second digit from left and third digit from right in the new number thus formed?

- Ans**
- ☐ 1. 10
  - ☐ 2. 14
  - ☐ 3. 6
  - ☒ 4. 2

**Q.23** In the following triads, 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.

TOWN - NWTO - TWON  
CLAW - WACL - CALW

- Ans**
- ☒ 1. PICK - KCPI - PCIK
  - ☐ 2. ROSE - RSOE - ESOR
  - ☐ 3. FUME - UMFE - UMEF
  - ☐ 4. HALF - FLHA - ALHF

**Q.24** Seven boxes L, M, N, O, P, Q and R are kept one over the other but not necessarily in the same order. M is kept fourth from the bottom. O is placed immediately below M. Q is placed immediately above R. P is the topmost box. M is placed immediately below L. Which box is placed at the bottom?

- Ans**
- ☐ 1. O
  - ☒ 2. R
  - ☐ 3. L
  - ☐ 4. Q

**Q.25** Rishabh starts from Point A and drives 9 km towards west. He then takes a left turn, drives 8 km, turns left and drives 15 km. He then takes a right turn and drives 6 km. He takes a final right turn, drives 6 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. 16 km towards east
  - ☒ 2. 14 km towards north
  - ☐ 3. 16 km towards west
  - ☐ 4. 14 km towards south

**Q.26** What should come in place of the question mark (?) in the given series?

85 86 88 92 100 ?

- Ans**
- ☐ 1. 118
  - ☐ 2. 117
  - ☒ 3. 116
  - ☐ 4. 115

**Q.27** Mr. Into ranked 49<sup>th</sup> from the bottom and 56<sup>th</sup> from the top in his class. How many students are there in his class?

- Ans**
- ☐ 1. 105
  - ☐ 2. 103
  - ☒ 3. 104
  - ☐ 4. 107

**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 is the one 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. TM-WR
  - ☒ 2. OH-RN
  - ☐ 3. NG-QL
  - ☐ 4. JC-MH

**Q.29** 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 notes are books. All books are tables.

**Conclusion (I):** Some notes are tables.

**Conclusions (II):** All tables are books.

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

**Q.30** What should come in place of the question mark (?) in the given series?

3 12 30 57 93 ?

- Ans**
- ☐ 1. 130
  - ☒ 2. 138
  - ☐ 3. 135
  - ☐ 4. 140