



## रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

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



Test Date	01/09/2025
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 Which of the following steps allows you to create a new folder on the desktop in Windows?

Ans  1. Go to Task Manager

2. Open Notepad

3. Press Ctrl + Alt + Del

4. Right-click → New → Folder

Q.2 During the colonial period, the manufacturing sector accounted for only \_\_\_\_\_.

Ans  1. 5%

2. 1%

3. 10%

4. 16%

Q.3 Which schedule of the Citizenship Act, 1955, contains the qualifications for naturalisation?

Ans  1. Third Schedule

2. First Schedule

3. Second Schedule

4. Tenth Schedule

Q.4 When was 'Operation Shield' conducted across India's border states and union territories?

Ans  1. 29 May 2025

2. 31 May 2025

3. 3 June 2025

4. 7 May 2025

Q.5 Where will the 18<sup>th</sup> edition of Pravasi Bharatiya Divas (PBD) be held in 2025?

Ans  1. Bhubaneswar

2. Mumbai

3. New Delhi

4. Chennai



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**Q.6** According to the principle of collective responsibility in India's parliamentary system, a successful no-confidence motion against a single Union Minister requires which action?

- Ans  1. The Lok Sabha is immediately dissolved.  
 2. The entire Council of Ministers must resign.  
 3. Only the targeted minister must resign.  
 4. The President dismisses only the targeted minister.

**Q.7** What is the name of ISRO's mission launched in January 2024 to study the polarisation of cosmic X-rays?

- Ans  1. XPoSat  
 2. Aditya-L1  
 3. RISAT-1  
 4. AstroSat

**Q.8** In a chemical reaction, the substances that are initially present before the reaction starts are called \_\_\_\_\_.

- Ans  1. reactants  
 2. products  
 3. intermediates  
 4. catalysts

**Q.9** Which of the following best describes the role of the Control Unit within the Central Processing Unit?

- Ans  1. It displays the processed output to the user.  
 2. It performs all mathematical and logical calculations.  
 3. It directs and coordinates the activities of all components of the computer.  
 4. It stores data and instructions temporarily during processing.

**Q.10** Which of the following organisations was one of the co-organisers of the 14<sup>th</sup> Asian Fisheries and Aquaculture Forum (14AFAF) held from 12 to 15 February 2025 at Pusa Campus, New Delhi?

- Ans  1. United Nations Environment Programme (UNEP)  
 2. Food and Agriculture Organization (FAO)  
 3. Asian Fisheries Society Indian Branch (AFSIB)  
 4. World Health Organization (WHO)

**Q.11** Which of the following substances constitutes the primary material of the "Mother Goddess" sculpture originating from the Indus Valley Civilisation?

- Ans  1. Bronze  
 2. Limestone  
 3. Terracotta  
 4. Steatite

**Q.12** The Khelo India Youth Games 2025 was organised from which date to which date at different locations in Bihar?

- Ans  1. 1 to 10 May 2025  
 2. 4 to 18 May 2025  
 3. 8 to 20 May 2025  
 4. 4 to 15 May 2025

**Q.13** If an RTI applicant is aggrieved by the Public Information Officer's decision (or lack of response), within how many days must the first appeal be filed under Section 19 of the RTI Act?

- Ans  1. 15 days  
 2. 90 days  
 3. 30 days  
 4. 60 days

**Q.14** The Department of Financial Services (DFS) notified amalgamation of 26 Regional Rural Banks (RRBs) on the principles of 'One State One RRB' in which phase of amalgamation of RRBs in 2025?

- Ans  1. Fifth  
 2. Second  
 3. Third  
 4. Fourth

**Q.15** Which system of land tenure prevalent before independence led to exploitation of farmers?

- Ans  1. Mahalwari system  
 2. Zamindari system  
 3. Cooperative farming  
 4. Ryotwari system

**Q.16** During Shahjahan's rule, how many mansabdars out of 8000 were higher ranking mansabdars who received 61.5% of the total estimated revenue of the empire as salaries for themselves and their troopers?

- Ans  1. 445  
 2. 545  
 3. 245  
 4. 345

**Q.17** Recipient of Padma Shri in 2025, Shri Onkar Singh Pahwa, is related to which cycle company of India?

- Ans  1. Avon Cycles  
 2. Hero Cycles  
 3. Atlas Cycles  
 4. Tata Stryder

**Q.18** Which of the following places may receive an amount of rainfall in a single day that is equal to 10 years of rainfall at Jaisalmer?

- Ans  1. Tura  
 2. Leh  
 3. Asansol  
 4. Siliguri

**Q.19** Urban transport infrastructure generally refers to the systems that facilitate the movement of people and goods within a city. Which of the following is NOT a part of urban transport infrastructure?

- Ans  1. Water irrigation pipelines  
 2. Public bus systems  
 3. Metro rail networks  
 4. Flyovers and expressways

**Q.20** Which statutory body organised a two-day National Conference on 'Environment – 2025' at Vigyan Bhawan, New Delhi, in March 2025?

- Ans  1. Central Ground Water Authority  
 2. Central Pollution Control Board  
 3. National Biodiversity Authority  
 4. National Green Tribunal

**Q.21** Who was the first Finance Minister of Independent India?

- Ans  1. John Mathai  
 2. R K Shanmugham Chetty  
 3. Rafi Ahmed Kidwai  
 4. Jairamdas Daulatram

**Q.22** Which country signed a contract with India in April 2025 to supply 26 Rafale Marine fighter jets?

- Ans  1. United Kingdom  
 2. France  
 3. United States  
 4. Russia

**Q.23** Who obtained the first accurate value of the speed of light using a rotating mirror apparatus in 1862?

- Ans  1. Albert A Michelson  
 2. Charles Wheatstone  
 3. Jean Bernard Léon Foucault  
 4. Marie Alfred Alen Cornu

**Q.24** What is the theoretical value of the Stefan-Boltzmann constant ( $\sigma$ ) which defines the power emitted per unit area by a black body as a function of its thermodynamic temperature?

- Ans  1.  $5.91 \times 10^{-7} \text{ W m}^{-2}\text{K}^{-4}$   
 2.  $5.17 \times 10^{-9} \text{ W m}^{-2}\text{K}^{-4}$   
 3.  $5.35 \times 10^{-10} \text{ W m}^{-2}\text{K}^{-4}$   
 4.  $5.67 \times 10^{-8} \text{ W m}^{-2}\text{K}^{-4}$

**Q.25** Which Buddhist scripture explicitly states "All dhammas are without self," affirming the doctrine of Anatta?

- Ans  1. Dhammapada  
 2. Kalpa Sutra  
 3. Bhagavati Sutra  
 4. Uttaradhyayana

**Q.26** Which initiative, launched in 2025, aims to develop quantum-encrypted communication for tamper-proof defence networks in India?

- Ans  1. SecureNet India  
 2. National Cyber Security Mission  
 3. National Quantum Mission  
 4. Quantum Leap Program

**Q.27 How does deforestation lead to desertification?**

- Ans  1. It increases humus in the soil.  
 2. It removes the top fertile soil layer, exposing hard, rocky layers.  
 3. It increases rainfall in dry regions.  
 4. It reduces soil erosion.

**Q.28 What is the most direct impact of poor infrastructure on rural education?**

- Ans  1. Poor mid-day meals  
 2. Lack of trained teachers  
 3. High student absenteeism  
 4. Low awareness about schemes

**Q.29 As of 2024, who among the following holds the national record in women's weightlifting (49 kg category) in India?**

- Ans  1. Sanjita Chanu  
 2. Saikhom Mirabai Chanu  
 3. Punam Yadav  
 4. Karnam Malleswari

**Q.30 Where was the 2025 Asia-Pacific Economic Cooperation (APEC) Sports Policy Network Roundtable Meeting & Forum held?**

- Ans  1. Japan  
 2. South Korea  
 3. China  
 4. Australia

**Q.31 What does the term 'halocline' refer to in oceanography?**

- Ans  1. A layer with a rapid change in pressure  
 2. A layer with a rapid change in salinity  
 3. A zone with the highest oxygen concentration  
 4. A layer with a rapid change in temperature

**Q.32 What does the term 'satyagraha' primarily mean in Gandhian philosophy for mass mobilisation and India's struggle for freedom during colonial rule?**

- Ans  1. Non-cooperation  
 2. Truth-force  
 3. Passive resistance  
 4. Civil disobedience

**Q.33 Which of the following was NOT a consequence of the Revolt of 1857?**

- Ans  1. Policies that favoured zamindars and landlords were struck down.  
 2. Lands and properties of Muslims were confiscated en masse.  
 3. The strength of Indian soldiers in the army was reduced.  
 4. The Governor-General of India was given the title 'Viceroy'.

**Q.34 Select the correct statement regarding the National Human Rights Commission (NHRC) of India.**

- Ans  1. It is a constitutional body formed by a Constitutional Amendment, with powers equal to the Supreme Court.  
 2. The NHRC has direct powers to prosecute and punish public officials for human rights abuses.  
 3. It was established in 1993 by an Act of Parliament to investigate and recommend on human rights violations.  
 4. The Chairperson of the NHRC is the Prime Minister of India.

**Q.35** Employees' Provident Fund Organisation (EPFO) India, which added more than 7.5 lac new subscribers in the month of March 2025, comes under which ministry of Government of India?

- Ans  1. Ministry of Statistics and Programme Implementation  
 2. Ministry of Personnel, Public Grievances and Pensions  
 3. Ministry of Finance  
 4. Ministry of Labour and Employment

**Q.36** Which tax was introduced in July 2017 to replace multiple indirect taxes in India as part of fiscal reforms?

- Ans  1. Income Tax  
 2. Excise Duty  
 3. GST  
 4. Sales Tax

**Q.37** Which of the following options correctly lists the composition of the State Executive in India?

- Ans  1. Governor, Chief Minister and Council of Ministers  
 2. President, Governor and Chief Minister  
 3. Governor, Deputy Minister and State Council of Advisors  
 4. Governor, Chief Minister and State Legislative Assembly members

**Q.38** The southern stretch of the Western Coast of India, sandwiched between the Western Ghats and the Arabian Sea, is referred to as the \_\_\_\_\_.

- Ans  1. Malabar Coast  
 2. Kathiawar Peninsula  
 3. Kannad Plain  
 4. Konkan

**Q.39** Which region in France is home to the massive white hydrogen reserve discovered in 2025, which is a game-changer for clean energy?

- Ans  1. Moselle  
 2. Provence  
 3. Normandy  
 4. Brittany

**Q.40** Which of the following space agencies successfully docked the SpaDeX satellite in January 2025?

- Ans  1. National Aeronautics and Space Administration  
 2. Indian Space Research Organisation  
 3. European Space Agency  
 4. China National Space Administration

**Section : Mathematics**

**Q.1** Nikhil, Nidhi and Tejas invested ₹1,200, ₹1,070 and ₹1,310, respectively to start a business. If the profit at the end of the year is ₹1,790, what is Tejas's share of the profit?

- Ans  1. ₹654  
 2. ₹657  
 3. ₹658  
 4. ₹655

**Q.2** If  $X = \frac{(1 + \cos\theta)(2 - 2\cos\theta)}{(2 + 2\sin\theta)(1 - \sin\theta)}$ , then the value of  $X + \frac{1}{X} + 2$  is:

- Ans  1.  $\cot^2\theta$   
 2.  $\cos^2\theta + \sec^2\theta$   
 3.  $\sec^2\theta \sin^2\theta$   
 4.  $\operatorname{cosec}^2\theta \sec^2\theta$

**Q.3** A sum of money triples itself at a certain rate of compound interest in 17 years. In how many years will it amount to 81 times of itself?

- Ans  1. 68 years  
 2. 59 years  
 3. 58 years  
 4. 64 years

**Q.4** The value of  $8^2 + \sqrt{3^2} - 2\sqrt{36} - 11$  is

- Ans  1. 38  
 2. 50  
 3. 51  
 4. 44

**Q.5** A shopkeeper offers the following discount scheme to his customers for the purchase of articles in his shop.  
'Buy 20 and get 5 free'  
Find the discount percentage offered.

- Ans  1. 25%  
 2. 30%  
 3. 20%  
 4. 32%

**Q.6** Find the value of x satisfying:  $5(5x^2 - 5) - 5(5x^2 + 7x - 2) = 14$

- Ans  1.  $-\frac{29}{35}$   
 2.  $-\frac{38}{35}$   
 3.  $-\frac{39}{35}$   
 4.  $-\frac{24}{35}$

**Q.7** The LCM of the numbers 2.8 and 0.217 is:

- Ans  1. 0.868  
 2. 8.68  
 3. 868  
 4. 86.8

**Q.8** If 4 times a son's age is added to his father's age, the sum is 100 years. If 2.5 times the father's age is added to the son's age, the sum is 97 years. What is the father's age (in years)?

Ans  1. 31

2. 32

3. 36

4. 30

**Q.9** 4 men can complete a piece of work in 12 days, while 8 women can do it in 15 days. In how many days can 3 women and 2 men complete this work?

Ans  1. 19 days

2. 15 days

3. 11 days

4. 14 days

**Q.10** Find the number of sides of a regular polygon, each of whose interior angles measures  $162^\circ$ .

Ans  1. 18

2. 16

3. 20

4. 22

**Q.11** The income of Raman is ₹80,200. He saves 7.5% of his income. If his income increases by 34% and expenditure increases by 40%, then his savings will:

Ans  1. increase by ₹2,403

2. decrease by ₹2,406

3. decrease by ₹2,404

4. increase by ₹2,404

**Q.12** Volumes of three cubes made of solid metal are  $789 \text{ cm}^3$ ,  $865 \text{ cm}^3$  and  $1721 \text{ cm}^3$ , respectively. After melting all the three, a solid cube was made of them. Find the length of the edge of the new cube.

Ans  1. 15 cm

2. 25 cm

3. 12 cm

4. 14 cm

**Q.13** Given that  $81^{0.65} = x$ ,  $81^{0.26} = y$  and  $x^z = y^7$ , then the value of z is close to:

Ans  1. 2.8

2. 4.09

3. 4.27

4. 1.32

**Q.14** A tradesman marks his goods at such a price that after allowing a discount of 30%, he still makes a profit of 10%. What is the marked price of an article (in ₹) whose cost price is ₹1,540?

Ans  1. 2,240

2. 2,420

3. 2,440

4. 2,204

**Q.15** A man driving a car at a speed of 48 km/hr crosses a bridge in 3.8 minutes. Find the length of the bridge.

- Ans  1. 2.36 km  
 2. 3.04 km  
 3. 2.54 km  
 4. 2.46 km

**Q.16** I bought two shirts for ₹1,200. I sold the first one at a loss of 8% and the second at a gain of 24%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first shirt.

- Ans  1. 924  
 2. 884  
 3. 900  
 4. 920

**Q.17** Find the volume of a sphere with diameter 12 cm.

- Ans  1.  $256\pi \text{ cm}^3$   
 2.  $288\pi \text{ cm}^3$   
 3.  $576\pi \text{ cm}^3$   
 4.  $905\pi \text{ cm}^3$

**Q.18** The selling price of 20 books is equal to the cost price of 36 books. Find the loss or gain percentage.

- Ans  1.  $\frac{100}{16}\%$  loss  
 2. 80% loss  
 3. 80% gain  
 4.  $\frac{100}{16}\%$  gain

**Q.19** The sum of two numbers is 44 and their L.C.M. is 459. What are the two numbers?

- Ans  1. 20, 24  
 2. 25, 19  
 3. 27, 17  
 4. 32, 12

**Q.20** The average of first 147 odd natural numbers, is:

- Ans  1. 146.5  
 2. 147  
 3. 148  
 4. 147.5

**Q.21** Ishaan has to reach Kolkata which is 843 km away in 11 hours. His starting speed for 4 hours was 34 km/hr. For the next 180 km his speed was 30 km/hr. By what speed he must travel now so as to reach Kolkata in the decided time of 11 hours?

- Ans  1. 527 km/hr  
 2. 523 km/hr  
 3. 528 km/hr  
 4. 530 km/hr

**Q.22** The product of two positive numbers is 3645. If the first number is five times the second number, then the sum of the two numbers is:

- Ans  1. 173  
 2. 164  
 3. 162  
 4. 172

**Q.23** A can do a work in 9 days and B can do the same work in 19 days. If they work on it together for 6 days, then what fraction of the work is left?

- Ans  1.  $\frac{10}{57}$   
 2.  $\frac{4}{57}$   
 3.  $\frac{7}{57}$   
 4.  $\frac{1}{57}$

**Q.24** ₹35,600 were divided among A, B and C, such that 8 times of A = 3 times of B = 6 times of C. Find the share of A.

- Ans  1. ₹7,194  
 2. ₹6,968  
 3. ₹7,120  
 4. ₹7,294

**Q.25** Find the mean proportional of 324 and 16.

- Ans  1. 69  
 2. 72  
 3. 74  
 4. 75

**Q.26** The value of  $\frac{5}{3} + \left( \frac{1}{1 + \frac{2}{7}} \right) - \frac{2}{3}$  is

- Ans  1.  $\frac{16}{9}$   
 2.  $\frac{26}{17}$   
 3.  $\frac{12}{7}$   
 4.  $\frac{8}{13}$

**Q.27** The number 481355 is divisible by which of the following?

- Ans  1. 3  
 2. 15  
 3. 6  
 4. 5

**Q.28** Find the simple interest (in ₹) if a sum of ₹400 is borrowed for 4.5 years at 16% per annum rate of interest.

- Ans  1. 338  
 2. 268  
 3. 388  
 4. 288

**Q.29** The average weight (in kg) of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 74 kg and 38 kg is:

- Ans  1. 52.4  
 2. 50.4  
 3. 51.4  
 4. 53.4

**Q.30** By how much is 65% of 65 greater than  $\frac{1}{5}$  of 55?

- Ans  1. 29.25  
 2. 25.25  
 3. 31.25  
 4. 28.25

#### Section : General Intelligence and Reasoning

**Q.1** In a certain code language, 'DRAG' is coded as '5824' and 'GRAM' is coded as '4592'. What is the code for 'M' in the given code language?

- Ans  1. 4  
 2. 9  
 3. 2  
 4. 5

**Q.2** In a certain code language, 'EARS' is coded as '1357' and 'SOUP' is coded as '2146'. What is the code for 'S' in that language?

- Ans  1. 6  
 2. 2  
 3. 1  
 4. 7

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

TAW VCY XEA ZGC ?

- Ans  1. BIQ  
 2. BIX  
 3. BIE  
 4. BIP

**Q.4** This question is based on the five, three-digit numbers given below.

(Left) 625 247 156 289 362 (Right)

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

What will be the resultant if the third digit of the highest number is added to the second digit of the lowest number?

Ans  1. 8

2. 7

3. 10

4. 12

**Q.5** What will come in place of the question mark (?) in the following equation if ‘–’ and ‘÷’ are interchanged and ‘×’ and ‘+’ are interchanged?

$$19 + 40 - 8 \times 2 \div 1 = ?$$

Ans  1. 96

2. 98

3. 99

4. 97

**Q.6** Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. No box is kept above G. Only three boxes are kept between G and B. Only one box is kept between F and D. D is kept immediately above B. Only four boxes are kept between F and E. A is kept at some place above C. How many boxes are kept above B?

Ans  1. 4

2. 3

3. 2

4. 1

**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. UX-ZS

2. OR-TM

3. LO-QI

4. RU-WP

**Q.8** What should come in place of the question mark (?) in the given series?

121 117.9 114.8 111.7 108.6 ?

Ans  1. 105.5

2. 107.6

3. 108.2

4. 106

**Q.9** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

PKE 17 RIH 10 TGK 1 ? XCQ -23

Ans  1. VFN -8

2. VEN -10

3. VEM -10

4. EFM -8

**Q.10** Each of the digits in the number 4512689 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. Three  
 2. Two  
 3. One  
 4. None

**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) % € 9 2 5 \* \$ € © @ % % 1 7 \$ \* @ 6 7 3 & \* (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. 5  
 2. 4  
 3. 3  
 4. 2

**Q.12** Seven boxes U, V, W, X, E, F and G are kept one over the other but not necessarily in the same order.

Only three boxes are kept above V. Only one box is kept between F and V. Only three boxes are kept between F and U. U is kept at some place above V. E is kept immediately below U. G is kept at one of the places above X. W is not kept immediately above or below F. Which box is kept at the lowermost position?

- Ans  1. W  
 2. U  
 3. X  
 4. F

**Q.13** 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:**

Some pants are sweaters.  
Some sweaters are coats.

**Conclusions:**

- (I) Some pants are coats.  
(II) Some sweaters are pants.
- Ans  1. Only conclusion (I) follows.  
 2. Neither conclusion (I) nor (II) follows.  
 3. Only conclusion (II) follows.  
 4. Both conclusions (I) and (II) follow.

**Q.14** 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. LO-HJ  
 2. FI-BC  
 3. PS-LN  
 4. IL-EG

**Q.15** 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. TW-VY  
 2. RU-TW  
 3. AD-CF  
 4. EH-GK

**Q.16** L, M, N, O, Q, R, and S are sitting around a circular table facing the centre of the table. S sits fourth to the left of O. R sits fourth to the right of M. Only two people sit between O and M when counted from the left of O. L is not an immediate neighbour of R or O. N is not an immediate neighbour of L.  
 Who sits third to the right of Q?

- Ans  1. O  
 2. S  
 3. N  
 4. L

**Q.17** 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.

HAIR - AHIR - RIAH  
 MEAN - EMAN - NAEM

- Ans  1. WANT - AWNT - TANW  
 2. LOCK - OLCK - OCKL  
 3. BOND - BNOD - DNOB  
 4. DUST - UDST - TSUD

**Q.18** H, I, J, K, U, V and W are sitting around a circular table facing the centre of the table. Only I sits between V and H. H sits third to the left of K. W sits to the immediate left of K. J is not an immediate neighbour of H.  
 Who sits fourth to the left of U?

- Ans  1. H  
 2. J  
 3. W  
 4. V

**Q.19** In a certain code language,  
 A \$ B means 'A is the mother of B',  
 A + B means 'A is the brother of B',  
 A @ B means 'A is the wife of B',  
 and A ÷ B means 'A is the father of B'.

How is E related to N if 'E @ F ÷ G \$ M + N'?

- Ans  1. Mother's mother  
 2. Mother's sister  
 3. Mother's father  
 4. Mother's brother

**Q.20** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$56 \times 8 - 13 \div 3 + 11 = ?$$

- Ans  1. 33  
 2. 34  
 3. 32  
 4. 35

**Q.21** Which of the given numbers will replace the question mark (?) in the following series to make it logically complete?

235 246 268 301 345 ?

- Ans  1. 401  
 2. 400  
 3. 410  
 4. 445

**Q.22** Raj ranked 44<sup>th</sup> from the top and 15<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans  1. 57  
 2. 59  
 3. 56  
 4. 58

**Q.23** 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 Tractors are Buses.

No Buses are Trucks.

**Conclusions:**

- I. No Trucks are Tractors.  
II. Some Trucks are Tractors.
- Ans  1. Only conclusion (I) follows.  
 2. Both conclusions (I) and (II) follow.  
 3. Only conclusion (II) follows.  
 4. Neither conclusion (I) nor (II) follows.

**Q.24** What should come in place of the question mark (?) in the given series?

1 2 4 8 10 20 22 ?

- Ans  1. 44  
 2. 42  
 3. 26  
 4. 24

**Q.25** Shreyas starts from Point A and drives 9 km towards the north. He then takes a left turn and drives 6 km, then turns left and drives 13 km. He then takes a left turn and drives 12 km. He takes a final left turn, drives 4 km and stops at Point P. How far (shortest distance) and in which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)

- Ans  1. 6 km to the west  
 2. 5 km to the east  
 3. 5 km to the west  
 4. 6 km to the east

**Q.26** NWLF is related to RZHC in a certain way based on the English alphabetical order. In the same way, VCDZ is related to ZFZW. To which of the following is DIVT related, following the same logic?

- Ans  1. HMSP  
 2. GKSP  
 3. IMRP  
 4. HLRQ

**Q.27** If + means –, – means ×, × means ÷ and ÷ means +, then what will come in place of the question mark (?) in the following equation?

$$7 - 4 + 15 \div 52 \times 13 = ?$$

- Ans  1. 12  
 2. 23  
 3. 28  
 4. 17

**Q.28** 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.)

61, 127

52, 109

- Ans  1. 47, 325  
 2. 83, 171  
 3. 93, 196  
 4. 63, 112

**Q.29** Anil starts from Point A and drives 7 km towards the south. He then takes a right turn, drives 5 km, turns right and drives 2 km. He then takes a right turn and drives 9 km. He takes a final left turn, drives 5 km and stops at Point F. How far (shortest distance) and in which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)

- Ans  1. 4 km towards the west  
 2. 3 km towards the east  
 3. 3 km towards the west  
 4. 4 km towards the east

**Q.30** GWSK is related to CTOH in a certain way based on the English alphabetical order. In the same way, YQKE is related to UNGB. To which of the given options is QKCY related, following the same logic?

- Ans  1. LGYW  
 2. OHZV  
 3. NGXU  
 4. MHYV