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	14/08/2025
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 Make in India initiative aims to boost domestic manufacturing. In which year was the 'Make in India' campaign launched?

Ans ✗ 1. 2012

✗ 2. 2016

✗ 3. 2018

✓ 4. 2014

Q.2 Which type of ROM can be programmed only once after manufacturing?

Ans ✗ 1. EEPROM

✓ 2. PROM

✗ 3. Mask ROM

✗ 4. EPROM

Q.3 From which site did ISRO conduct its 100th space launch?

Ans ✗ 1. Chitradurga

✓ 2. Sriharikota

✗ 3. Chandipur

✗ 4. Hassan

Q.4 On 30 May 2025, which state declared 100% literacy under the ULLAS Nav Bharat Literacy Programme, surpassing its earlier PLFS-recorded rate?

Ans ✗ 1. Kerala

✓ 2. Goa

✗ 3. Himachal

✗ 4. Sikkim

Q.5 Which chemical reaction produces ortho-hydroxybenzoic acid, the primary reaction product used as a raw material for medications?

Ans ✓ 1. Kolbe's reaction

✗ 2. Stephen reaction

✗ 3. Reimer-Tiemann reaction

✗ 4. Friedel-Crafts reaction

Q.6 Who first proposed a law in 1931 to clarify the idea of thermal equilibrium and its significance in determining temperature?

Ans ✗ 1. Hugh L. Callendar

✗ 2. James P Espy

✗ 3. Rudolf Clausius

✓ 4. Ralph H Fowler

Q.7 An infrasound microphone enables the remote detection of aircraft wake vortices, clear air turbulence, tornadoes, and seismic events at frequencies below:

Ans ✗ 1. 30 Hz

✗ 2. 10 Hz

✗ 3. 5 Hz

✓ 4. 20 Hz

Q.8 Which of the following is considered a major social development outcome of India's economic reforms since 1991?

Ans ✗ 1. Increase in poverty rate

✗ 2. Widening of fiscal deficit

✗ 3. Decrease in literacy rate

✓ 4. Improvement in life expectancy

Q.9 Who was the last Viceroy of India who oversaw the partition of India before leaving?

Ans ✗ 1. Pethick Lawrence

✗ 2. Lord Cripps

✓ 3. Lord Mountbatten

✗ 4. Lord Wavell

Q.10 Which of the following Acts provides legal status to Lok Adalats in India?

Ans ✗ 1. Indian Penal Code, 1860

✗ 2. Civil Procedure Code, 1908

✗ 3. Arbitration and Conciliation Act, 1996

✓ 4. Legal Services Authorities Act, 1987

Q.11 On which of the following dates did Prime Minister Narendra Modi address the 78th Session of the World Health Assembly held in Geneva?

Ans ✗ 1. 12 May 2025

✗ 2. 20 April 2025

✗ 3. 12 April 2025

✓ 4. 20 May 2025

Q.12 At the 2025 ceremony held at the European Parliament, which movie was honoured with the LUX Audience Award?

Ans ✗ 1. Emilia Pérez

✗ 2. Anora

✗ 3. The Brutalist

✓ 4. Flow

Q.13 Which of the following Biosphere Reserves is located in Tamil Nadu?

Ans ✓ 1. Gulf of Mannar Biosphere Reserve

✗ 2. Dibru-Saikhowa Biosphere Reserve

✗ 3. Seshachalam Biosphere Reserve

✗ 4. Sundarbans Biosphere Reserve

Q.14 Celebrated Urdu poet and bollywood writer-director Gulzar was honoured with which of the following awards in 2025?

Ans ✔ 1. Jnanpith Award

✘ 2. Padma Vibhushan

✘ 3. Padma Shri

✘ 4. Padma Bhushan

Q.15 The Supreme Court's doctrine of 'Basic Structure' (the Parliament CANNOT alter the basic features of the Constitution) was first established in which landmark case?

Ans ✘ 1. Shankari Prasad vs Union of India (1951)

✔ 2. Kesavananda Bharati vs State of Kerala (1973)

✘ 3. IC Golaknath vs State of Punjab (1967)

✘ 4. Minerva Mills vs Union of India (1980)

Q.16 The 'Atmanirbhar Oil Seeds Abhiyan' launched in Budget 2025 focuses on:

Ans ✘ 1. exporting surplus oil seeds

✔ 2. achieving self-sufficiency in oilseed production

✘ 3. subsidising edible oil prices

✘ 4. importing high-quality seeds for oil production

Q.17 The Chhatrapati Shivaji Terminus is a prime example of which of the following types of architectural style?

Ans ✘ 1. Pure Mughal

✔ 2. Indo-Saracenic

✘ 3. Dravidian

✘ 4. Gothic alone

Q.18 At the time of colonial period, the Asaf Jahi dynasty was established in _____.

Ans ✘ 1. Punjab

✔ 2. Hyderabad

✘ 3. Bengal

✘ 4. Mysore

Q.19 Which initiative, launched by the Indian Cyber Crime Coordination Centre (I4C) under the Ministry of Home Affairs, aims to facilitate rapid action against cybercriminals?

Ans ✘ 1. Digital India Cyber Shield

✘ 2. Cyber Suraksha Abhiyan

✔ 3. e-Zero FIR

✘ 4. National Cyber Safety Net

Q.20 Which of the following abbreviations is correctly matched with its meaning?

Ans ✘ 1. ASCII – Automated System for Computer Input

✘ 2. LAN – Large Area Network

✔ 3. CD – Compact Disc

✘ 4. LAN – Local Area Node

Q.21 Who was declared the Emperor of India by the revolting sepoys during the 1857 uprising?

Ans ✘ 1. Akbar II

✘ 2. Shah Alam II

✔ 3. Bahadur Shah II

✘ 4. Aurangzeb

Q.22 The Directive Principles of State Policy aim to establish:

Ans ✓ 1. a welfare state

✗ 2. a capitalist state

✗ 3. a police state

✗ 4. a democratic dictatorship

Q.23 Which Ministry is primarily responsible for implementing most rural development schemes in India?

Ans ✗ 1. Ministry of Social Justice and Empowerment

✗ 2. Ministry of Agriculture and Farmers Welfare

✗ 3. Ministry of Panchayati Raj

✓ 4. Ministry of Rural Development

Q.24 What was the theme of National Technology Day celebrated in India in May 2025?

Ans ✗ 1. Towards a Self-Reliant India through Science and Technology

✗ 2. Powering India through Innovation and Research

✗ 3. Digital India: Empowering Through Smart Technologies

✓ 4. YANTRA – Yugantar for Advancing New Technology, Research & Acceleration

Q.25 Post-independence, India adopted a planned approach to build a mixed economy. Which sector was given top priority under the First Five-Year Plan?

Ans ✓ 1. Agriculture

✗ 2. Tertiary

✗ 3. Defence

✗ 4. Industry

Q.26 India developed its first indigenous Magnetic Resonance Imaging (MRI) machine, set to be installed at _____.

Ans ✗ 1. All Indian Institute of Medical Sciences, Nagpur

✗ 2. All Indian Institute of Medical Sciences, Bhopal

✗ 3. All Indian Institute of Medical Sciences, Raipur

✓ 4. All Indian Institute of Medical Sciences, Delhi

Q.27 Which of the following officials toured Mauryan provinces every five years to inspect administration and submit reports on provincial governance?

Ans ✗ 1. Rajuka

✓ 2. Pradeshika

✗ 3. Nagarika

✗ 4. Amatya

Q.28 Which of the following is an example of a tertiary activity?

Ans ✗ 1. Manufacturing

✗ 2. Mining

✓ 3. Teaching

✗ 4. Farming

Q.29 The All India Services in India are created under which Article of the Constitution?

Ans ✗ 1. Article 320

✓ 2. Article 312

✗ 3. Article 206

✗ 4. Article 107

Q.30 Which of the following is a multipurpose river valley project?

Ans
- ✅ 1. Damodar Valley Project
- ❌ 2. Sharda Canal
- ❌ 3. Agra Canal
- ❌ 4. Indira Gandhi Canal

Q.31 Which of the following characteristics is true about the Northern Plains?

Ans
- ❌ 1. Presence of volcanic plateaus
- ✅ 2. Densely populated due to fertile soil
- ❌ 3. High elevation with steep slopes
- ❌ 4. Low fertility due to rocky terrain

Q.32 Which of the following was one of the last princely states to join the Indian Union?

Ans
- ❌ 1. Mysore
- ❌ 2. Jodhpur
- ✅ 3. Hyderabad
- ❌ 4. Travancore

Q.33 Which water bodies flank the Peninsular Plateau on the east and west?

Ans
- ✅ 1. Bay of Bengal and Arabian Sea
- ❌ 2. Bay of Bengal and Indian Ocean
- ❌ 3. Indian Ocean and Arabian Sea
- ❌ 4. Arabian Sea and Andaman Sea

Q.34 What is the term of office for the President of India?

Ans
- ✅ 1. 5 years
- ❌ 2. Until removed by Parliament
- ❌ 3. 6 years
- ❌ 4. 4 years

Q.35 In the realm of cinema, documentaries are characterised by:

Ans
- ❌ 1. focusing on fictional suspense
- ❌ 2. fabricated storylines
- ✅ 3. presenting real-world content for learning or leisure
- ❌ 4. aiming to communicate about mythological characters

Q.36 Who among the following represented India in the 11th BRICS Environment Ministers Summit, 2025?

Ans
- ❌ 1. Bhupendra Yadav
- ❌ 2. S Jai Shankar
- ✅ 3. Amandeep Garg
- ❌ 4. Amit Shah

Q.37 Which major initiative was approved by the Indian government in May 2025 to strengthen the country's defence capabilities?

Ans
- ❌ 1. Establishment of new army divisions along the northern border
- ✅ 2. Acquisition of new aircraft carriers
- ❌ 3. Development of a fifth-generation twin-engine stealth fighter jet
- ❌ 4. Deployment of nuclear submarines in the Indian Ocean

Q.38 The Defence Ministry's planned order for 500 Invar anti-tank guided missiles—valued at ₹2,000–3,000 crore—will be placed with which defence Public Sector Unit (PSU)?

Ans
✅ 1. Bharat Dynamics Limited

❌ 2. Armoured Vehicles Nigam Ltd.

❌ 3. Bharat Electronics Limited

❌ 4. Garden Reach Shipbuilders & Engineers Ltd.

Q.39 Which weathering process involves the peeling of rock layers due to temperature variations?

Ans
❌ 1. Frost action

✅ 2. Exfoliation

❌ 3. Solution

❌ 4. Oxidation

Q.40 Which of the following states introduced India's first AI Anchor Ankita in a regional language in May 2025?

Ans
❌ 1. Madhya Pradesh

✅ 2. Assam

❌ 3. Tamil Nadu

❌ 4. Kerala

Section : **Mathematics**

Q.1 A can lay railway track between two given stations in 20 days and B can do the same job in 12 days. With the help of C, they did the job in 2 days only. Then, C alone can do the job in

Ans

❌ 1. $4\frac{8}{11}\ days$

❌ 2. $11\frac{8}{11}\ days$

❌ 3. $9\frac{8}{11}\ days$

✅ 4. $2\frac{8}{11}\ days$

Q.2 The value of $\sqrt{324} + \sqrt{0.0324} - \sqrt{8.41}$ is _____.

Ans
❌ 1. 10.83

❌ 2. 16.61

❌ 3. 6.97

✅ 4. 15.28

Q.3 A customer buys two products, each product being worth ₹350, with a "buy one get one 30% off" deal. What is the total amount paid by the customer?

Ans
✅ 1. ₹595

❌ 2. ₹490

❌ 3. ₹560

❌ 4. ₹455

Q.4 The ratio of two numbers is 5 : 6 and their HCF is 7. Find their LCM.

Ans
✗ 1. 35
✔ 2. 210
✗ 3. 42
✗ 4. 84

Q.5 X, Y and Z invested a sum in the ratio of 58 : 72 : 20, respectively. If they earned a total profit of ₹3,750 at the end of the year, what is the difference between the shares of Y and Z?

Ans
✔ 1. ₹1,300
✗ 2. ₹1,404
✗ 3. ₹1,231
✗ 4. ₹1,254

Q.6 Which of the following numbers divide 862026417?

Ans
✗ 1. 6
✗ 2. 5
✔ 3. 7
✗ 4. 11

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

Ans
✗ 1. $\dfrac{2}{7}$
✗ 2. $\dfrac{10}{17}$
✔ 3. $\dfrac{7}{12}$
✗ 4. $\dfrac{14}{13}$

Q.8 If cotA + cosA = p, cotA - cosA = q, then what is the value of $p^2 - q^2$?

Ans
✔ 1. $4\sqrt{pq}$
✗ 2. $3\sqrt{pq}$
✗ 3. $2\sqrt{pq}$
✗ 4. $\sqrt{pq}$

Q.9 A bag is marked at ₹2,000. A shopkeeper offers two successive discounts of 10% and 5%. What is the final price the customer pays?

Ans
✔ 1. ₹1,710
✗ 2. ₹1,700
✗ 3. ₹1,800
✗ 4. ₹1,750

Q.10 Simplify $x(5x - 9) + 7(x^2 - 2) + 17$.

Ans
✗ 1. $12x^2 - 9x - 3$
✗ 2. $-12x^2 - 9x + 3$
✔ 3. $12x^2 - 9x + 3$
✗ 4. $-12x^2 - 9x - 3$

Q.11 If the radius of the base of a right circular cylinder is decreased by 27% and its height is increased by 165%, then what is the percentage increase (closest integer) in its volume?

Ans

✗ 1. 20%

✗ 2. 48%

✓ 3. 41%

✗ 4. 36%

Q.12 Find the volume of a cylinder with radius 5 cm and height 21 cm (use $\pi = \frac{22}{7}$).

Ans

✗ 1. 1200 cm³

✓ 2. 1650 cm³

✗ 3. 1500 cm³

✗ 4. 1320 cm³

Q.13 The sum of five numbers is 655. The average of the first two numbers is 80 and the third number is 107. Find the average of the remaining two numbers.

Ans

✗ 1. 188

✗ 2. 187

✗ 3. 195

✓ 4. 194

Q.14 A trader claims to sell wheat at a profit of 29%, but also dishonestly uses a weight which is 30% less than what is mentioned on it. Find the total percentage of profit earned by the trader. (Round off the answer to the nearest whole number.)

Ans

✗ 1. 79%

✓ 2. 84%

✗ 3. 86%

✗ 4. 87%

Q.15 A bus travelling at 86 km/hr completes a journey in 7 hours. What should be its speed to cover the same distance in 14 hours?

Ans

✓ 1. 43 km/hr

✗ 2. 53 km/hr

✗ 3. 35 km/hr

✗ 4. 42 km/hr

Q.16 Find the simple interest (in ₹) on ₹1,200 at an interest rate of 3% per month in 6 months.

Ans

✗ 1. 38

✗ 2. 18

✓ 3. 216

✗ 4. 36

Q.17 A number, when increased by 60%, gives 3590. The number is:

Ans

✗ 1. 1121.875

✓ 2. 2243.75

✗ 3. 4487.5

✗ 4. 6731.25

Q.18 The difference between the lengths of two parallel sides of a trapezium is 6 cm. The perpendicular distance between them is 24 cm. If the area of the trapezium is 648 cm^2, then what is the length of the parallel sides?

Ans ✗ 1. 28 cm, 22 cm

✔ 2. 30 cm, 24 cm

✗ 3. 36 cm, 30 cm

✗ 4. 23 cm, 29 cm

Q.19 The average of first 172 even numbers is

Ans ✗ 1. 174

✗ 2. 173.5

✗ 3. 172.5

✔ 4. 173

Q.20 Ashish bought some rulers at the rate of ₹180/dozen. He sold them for ₹24 each. His profit percentage is _____%.

Ans ✗ 1. 58

✔ 2. 60

✗ 3. 62

✗ 4. 64

Q.21 Isha can do a certain piece of work in 24 days. Isha and Smriti can together do the same work in 20 days, and Isha, Smriti and Ashlesha can do the same work together in 12 days. In how many days can Isha and Ashlesha do the same work together?

Ans

✗ 1. $\dfrac{35}{4}$

✔ 2. $\dfrac{40}{3}$

✗ 3. $\dfrac{41}{3}$

✗ 4. $\dfrac{30}{5}$

Q.22 In an election between two candidates, 80% of the registered voters cast their vote and 21% of the votes polled were found invalid. The winning candidate got 51% of the valid votes and won the election by a margin of 1817 votes. How many voters were registered?

Ans ✔ 1. 143750

✗ 2. 143753

✗ 3. 143751

✗ 4. 143752

Q.23 ₹42,100 were divided among A, B and C such that 8 times the share of A = 3 times the share of B = 6 times the share of C. Find the share of A.

Ans ✗ 1. ₹8,278

✗ 2. ₹8,360

✔ 3. ₹8,420

✗ 4. ₹8,538

Q.24 If the third proportional of 4 and 16 be x, then what is the value of x?

Ans
✗ 1. 62
✗ 2. 67
✗ 3. 66
✓ 4. 64

Q.25 Daksh travels 774 km at 86 km/hr, the next 567 km at 63 km/hr and the next 135 km at 27 km/hr. What is his average speed (in km/hr, rounded off to two decimal places) for the whole journey?

Ans
✗ 1. 70.24
✗ 2. 70.02
✓ 3. 64.17
✗ 4. 63.06

Q.26 Evaluate 74^2.

Ans
✗ 1. 5456
✗ 2. 5526
✗ 3. 5486
✓ 4. 5476

Q.27 If the interest earned during the 2nd year on a certain sum is ₹5,520, and the rate of interest is 20% per annum compounded annually, then the sum is:

Ans
✗ 1. ₹22,875
✓ 2. ₹23,000
✗ 3. ₹23,405
✗ 4. ₹22,695

Q.28 The product of two positive numbers is 9245. If the first number is five times of the second number, then the sum of the two numbers is:

Ans
✗ 1. 269
✗ 2. 266
✓ 3. 258
✗ 4. 257

Q.29 Six times the present age of P exceeds the present age of Q by 46 years. After 10 years, six times Q's age will be 18 years less than five times P's age at that time. What is the present age of Q (in years)?

Ans
✗ 1. 1
✓ 2. 2
✗ 3. 6
✗ 4. 5

Q.30 The number 934725 is divisible by which of the following?

Ans
✗ 1. 6
✓ 2. 3
✗ 3. 2
✗ 4. 10

Section : **General Intelligence and Reasoning**

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 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. ZR - FN

✖ 2. HO - MK

✖ 3. BV - GR

✖ 4. YD - DZ

Q.2 What should come in place of the question mark (?) in the given series?

657 660 665 672 681 ?

Ans ✖ 1. 690

✖ 2. 691

✖ 3. 693

✔ 4. 692

Q.3 R is the sister of C. C is the sister of B. B is the father of A. A is the daughter of G. How is R related to G?

Ans ✖ 1. Husband's mother

✖ 2. Sister

✔ 3. Husband's sister

✖ 4. Mother

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:
All bats are stick.
All bamboo is stick.

Conclusions:
(I): Some bats are bamboo.
(II): Some sticks are bamboo.

Ans ✖ 1. Both conclusions (I) and (II) follow.

✔ 2. Only conclusion (II) follows.

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

✖ 4. Only conclusion (I) follows.

Q.5 Seven boxes F, G, H, I, K, L, and O are kept one over the other but not necessarily in the same order. O is kept immediately above F. G is kept immediately above I. Only K is kept above L. Only two boxes are kept above O. G is not kept at the third position from the bottom.
How many boxes are kept between H and K?

Ans ✖ 1. Two

✖ 2. Four

✖ 3. One

✔ 4. Three

Q.6 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 3 * > * ? 5 6 2 $ # 3 ^ $ 4 + 6 < + (Right)

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

Ans ✗ 1. One

✗ 2. None

✗ 3. Four

✔ 4. Two

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

31 58 94 139 193 ?

Ans ✗ 1. 272

✗ 2. 263

✗ 3. 281

✔ 4. 256

Q.8 IMJI is related to GKHG in a certain way based on the English alphabetical order. In the same way, FJGF is related to DHED. To which of the given options is XBYX related, following the same logic?

Ans ✗ 1. VZVV

✗ 2. VAVX

✗ 3. VYVV

✔ 4. VZWV

Q.9 If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 5237894, what will be difference between the highest and lowest digits in the number thus formed?

Ans ✗ 1. 6

✗ 2. 7

✔ 3. 8

✗ 4. 9

Q.10 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

LTB 83, OWE 74, RZH 65, UCK 56, XFN 47, ?

Ans ✗ 1. AMQ 36

✗ 2. BIQ 42

✗ 3. AIO 40

✔ 4. AIQ 38

Q.11 Vimal ranked 29th from the top and 24th from the bottom in his class. How many students are there in his class?

Ans ✗ 1. 54

✔ 2. 52

✗ 3. 53

✗ 4. 51

Q.12 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

GOF : IQE
SNG : UPF

Ans ✗ 1. NNL : PQK

✗ 2. QUK : SXJ

✗ 3. QRQ : STR

✓ 4. ELM : GNL

Q.13 What should come in place of the question mark (?) in the given series?

6 13 27 48 76 ?

Ans ✗ 1. 100

✗ 2. 109

✗ 3. 105

✓ 4. 111

Q.14 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.)

(28, 140, 5)
(41, 533, 13)

Ans ✗ 1. (44, 355, 8)

✗ 2. (1, 25, 22)

✓ 3. (35, 735, 21)

✗ 4. (25, 103, 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 conclusions logically follow(s) from the statement(s).

Statements:

All prints are banners.
All prints are flexes.

Conclusions:

(I) Some banners are flexes.
(II) All flexes are prints.

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.16 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. SOK

✓ 2. QKG

✗ 3. EAW

✗ 4. RNJ

Q.17 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. QWS

✗ 2. NTP

✓ 3. TZU

✗ 4. KQM

Q.18 What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

42 + 75 × 3 − 11 ÷ 3 = ?

Ans ✗ 1. 43

✗ 2. 23

✗ 3. 32

✓ 4. 50

Q.19 Six friends Q, R, S, T, U and V are sitting around a circular table, facing the centre. S sits third to the right of V. V sits second to the left of Q. U sits to the immediate left of R. Who sits to the immediate right of S?

Ans ✗ 1. R

✗ 2. T

✓ 3. U

✗ 4. Q

Q.20 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.

SINK - ISNK - KISN
PLAY - LPAY - YLPA

Ans ✓ 1. HOLD - OHLD - DOHL

✗ 2. CLAY - LCAY - LAYC

✗ 3. MARK - MRAK - KRAM

✗ 4. DINE - IDNE - EIND

Q.21 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?

25 A 5 D 10 B 3 C 42 = ?

Ans ✗ 1. 24

✗ 2. 14

✗ 3. 21

✓ 4. 17

Q.22 In a certain code language, 'GLUE' is coded as '2475' and 'UNIT' is coded as '1536'. What is the code for 'U' in that language?

Ans ✗ 1. 1

✗ 2. 3

✓ 3. 5

✗ 4. 7

Q.23 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

XSW TOS PKO LGK ?

Ans ✅ 1. HCG

❌ 2. HCF

❌ 3. HBG

❌ 4. HBF

Q.24 Town P is to the north of town Q. Town Q is to the east of town R. Town T is to the north of town P. Town S is to the east of town P. What is the position of town S with respect to town Q?

Ans ✅ 1. Northeast

❌ 2. North

❌ 3. Southeast

❌ 4. Northwest

Q.25 This question is based on the five, three-digit numbers given below.

(Left) 731 890 923 286 378 (Right)

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

In how many numbers is the sum of the 1st and 3rd digits greater than the 2nd digit?

Ans ❌ 1. Two

✅ 2. Three

❌ 3. One

❌ 4. Four

Q.26 Younis starts from Point A and drives 17 km towards East. He then takes a left turn, drives 6 km, turns right and drives 11 km. He then takes a right turn and drives 6 km. He takes a final right turn, drives 2 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. 29 km towards East

❌ 2. 29 km towards West

❌ 3. 26 km towards North

✅ 4. 26 km towards West

Q.27 A, B, C, D, Q, R and S are sitting around a circular table facing the centre of the table. Only two people sit between Q and B when counted from the right of Q. Only three people sit between A and C when counted from the right of C. B sits to the immediate right of C. R sits to the immediate right of S.
Who sits fourth to the right of D?

Ans ❌ 1. S

❌ 2. C

❌ 3. A

✅ 4. R

Q.28 Seven boxes U, V, W, X, E, F and G are kept one over the other but not necessarily in the same order.
No box is kept above W. Only three boxes are kept between W and F. Only one box is kept between E and V. V is kept immediately above F. Only four boxes are kept between E and X. G is kept at some place above U. Which box is kept second below G?

Ans ✅ 1. F

❌ 2. W

❌ 3. V

❌ 4. U

Q.29 In a certain code language, 'are you hungry' is written as 'mk tk jb' and 'you came early' is coded as 'cd ab mk'. How is 'you' coded in the given language?

Ans
✗ 1. jb

✗ 2. tk

✓ 3. mk

✗ 4. jt

Q.30 If 1 is added for each odd digit and 1 is subtracted from each even digit of the number 86435621, how many digits are repeated more than once in the new number thus formed?

Ans
✗ 1. Three

✗ 2. None

✓ 3. One

✗ 4. Two