



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



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| Test Date | 11/08/2025 |
| 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 addressed the opening session of the 24th edition of the World Sustainable Development Summit in New Delhi in March 2025?

- Ans**
- ☒ 1. Pralhad Joshi
 - ☒ 2. Bhupender Yadav
 - ☒ 3. Piyush Goyal
 - ☒ 4. Amit Shah

Q.2 Which of the following rivers is a peninsular river and flows eastward?

- Ans**
- ☒ 1. Sabarmati
 - ☒ 2. Narmada
 - ☒ 3. Tapti
 - ☒ 4. Mahanadi

Q.3 Which of the following US biotech companies opened a \$200 million tech and innovation hub in 2025?

- Ans**
- ☒ 1. Genentech
 - ☒ 2. Biogen
 - ☒ 3. Novavax
 - ☒ 4. Amgen

Q.4 Which of the following conducted India's inaugural Agentic AI Hackathon in 2025?

- Ans**
- ☒ 1. AI Nexus Foundation
 - ☒ 2. Techvantage.ai
 - ☒ 3. DigitalNext AI
 - ☒ 4. Bharat Innovation Lab

Q.5 Which sector was given top priority under the Second Five-Year Plan of India (1956-61)?

- Ans**
- ☒ 1. Education and health
 - ☒ 2. Agriculture
 - ☒ 3. Small-scale industries
 - ☒ 4. Heavy and basic industries

Q.6 Who among the following was the renowned poet-saint of the Bhakti movement known for composing dohas (couplets)?

- Ans**
- ☐ 1. Bhasa
 - ☒ 2. Kabir
 - ☐ 3. Kalidasa
 - ☐ 4. Bharavi

Q.7 In March 2025, the Lok Sabha passed the Bills of Lading Bill, modernising how many years of old colonial shipping law?

- Ans**
- ☒ 1. 169 years
 - ☐ 2. 175 years
 - ☐ 3. 150 years
 - ☐ 4. 120 years

Q.8 Which of the following is an example of a longitudinal wave?

- Ans**
- ☐ 1. Water wave on surface
 - ☐ 2. Light wave in vacuum
 - ☒ 3. Sound wave in air
 - ☐ 4. Radio wave during transmission

Q.9 Who has written the book 'Parliament: Powers, Functions & Privileges; A Comparative Constitutional Perspective', launched by the former Vice-President Jagdeep Dhankhar in January 2025?

- Ans**
- ☐ 1. MJ Akbar
 - ☐ 2. Dr. Rajen Saikia
 - ☒ 3. Dr. KS Chauhan
 - ☐ 4. K Natwar Singh

Q.10 Which method used in metallurgy specifically describes the formation of metal oxides by heating carbonate ores?

- Ans**
- ☐ 1. Calcification
 - ☐ 2. Chlorination
 - ☒ 3. Calcination
 - ☐ 4. Carbonation

Q.11 Which exercise did INS Shivalik complete just before joining RIMPAC in June 2024?

- Ans**
- ☐ 1. AUSINDEX
 - ☐ 2. INDRA
 - ☒ 3. JIMEX
 - ☐ 4. SLINEX

Q.12 The location of cement plants is mainly governed by the availability of:

- Ans**
- ☐ 1. bauxite
 - ☐ 2. cotton
 - ☐ 3. iron ore
 - ☒ 4. limestone

Q.13 Which Indian Prime Minister is closely associated with initiating the 1991 LPG reforms?

- Ans**
- ☐ 1. Rajiv Gandhi
 - ☐ 2. Indira Gandhi
 - ☐ 3. Atal Bihari Vajpayee
 - ☒ 4. PV Narasimha Rao

Q.14 A computer system mainly includes which three components?

- Ans**
- ☐ 1. CPU, Scanner, Air Conditioner
 - ☐ 2. Monitor, USB, Light
 - ☐ 3. Mouse, CPU, Mobile
 - ☒ 4. Input, Processing, Output

Q.15 What type of rainfall occurs when air is forced to rise over a mountain barrier?

- Ans**
- ☐ 1. Cyclonic rainfall
 - ☒ 2. Orographic rainfall
 - ☐ 3. Convectional rainfall
 - ☐ 4. Frontal rainfall

Q.16 Which of the following devices is primarily used to convert digital signals into sound for audio output?

- Ans**
- ☐ 1. Printer
 - ☒ 2. Speaker
 - ☐ 3. Microphone
 - ☐ 4. Monitor

Q.17 Which country served as the host for the 2025 Asian Winter Games?

- Ans**
- ☐ 1. Kazakhstan
 - ☒ 2. China
 - ☐ 3. Japan
 - ☐ 4. South Korea

Q.18 Who was appointed as the Chairperson of the 23rd Law Commission of India in April 2025?

- Ans**
- ☐ 1. Justice (Retd.) Ranjan Gogoi
 - ☐ 2. Justice (Retd.) AK Sikri
 - ☒ 3. Justice (Retd.) Dinesh Maheshwari
 - ☐ 4. Justice (Retd.) Kurian Joseph

Q.19 Which of the following is NOT a principle of Jainism?

- Ans**
- ☐ 1. The whole world, including stone and water, has life.
 - ☒ 2. Rejection of the doctrine of Karma
 - ☐ 3. Practice of non-injury to living beings
 - ☐ 4. Monastic life is the only way to salvation.

Q.20 Which island nation lies to the south of the Lakshadweep Islands?

- Ans**
- ☒ 1. Maldives
 - ☐ 2. Andaman Islands
 - ☐ 3. Sri Lanka
 - ☐ 4. Mauritius

Q.21 Puja Tomar, the first Indian woman to achieve a victory in a UFC (Ultimate Fighting Championship) fight in 2024, participates in which sport?

- Ans**
- ☐ 1. Wrestling
 - ☒ 2. Mixed Martial Arts
 - ☐ 3. Boxing
 - ☐ 4. Judo

Q.22 Hema Malini, who was appointed Member of Committee on the Empowerment of Women in April 2025, represents which parliamentary constituency?

- Ans**
- ☐ 1. Bareilly
 - ☐ 2. Agra
 - ☐ 3. Meerut
 - ☒ 4. Mathura

Q.23 Which military operation was launched to integrate Hyderabad into India in 1948?

- Ans**
- ☐ 1. Operation Shield
 - ☐ 2. Operation Peace
 - ☒ 3. Operation Polo
 - ☐ 4. Operation Lotus

Q.24 Which of the following Articles of the Indian Constitution provides for the composition of Municipalities?

- Ans**
- ☐ 1. Article 243S
 - ☒ 2. Article 243R
 - ☐ 3. Article 243X
 - ☐ 4. Article 243Q

Q.25 What makes basic rules in the Constitution effective?

- Ans**
- ☐ 1. They are based on popular customs only.
 - ☒ 2. They are legally enforceable.
 - ☐ 3. They are a secret.
 - ☐ 4. They are not enforced.

Q.26 Globalisation influenced consumer choices in India. Which trend reflects the impact of globalisation on Indian consumers?

- Ans**
- ☐ 1. Decline in foreign goods
 - ☐ 2. Less brand diversity
 - ☐ 3. Monopolisation of FMCG
 - ☒ 4. Wider availability of international brands

Q.27 In which of the following Indian cities was the Prarthana Samaj, which believed in the spiritual equality of all castes, founded in the 19th century?

- Ans**
- ☒ 1. Bombay
 - ☐ 2. Kanpur
 - ☐ 3. Mysore
 - ☐ 4. Jodhpur

Q.28 Which two chemists are credited with developing the law of mass action in 1864, which states that the concentration of the reactants determines how quickly a chemical change occurs?

- Ans**
- ☐ 1. Fritz Haber and Carl Bosch
 - ☐ 2. Carl Wilhelm Scheele and Humphry Davy
 - ☒ 3. Cato M Guldberg and Peter Waage
 - ☐ 4. Georg Brandt and Torbern Bergman

Q.29 On the occasion of Republic Day 2025, the president of India conferred how many Jeevan Raksha Padak Series of Awards-2024?

- Ans**
- ☐ 1. 17
 - ☐ 2. 09
 - ☒ 3. 49
 - ☐ 4. 23

Q.30 In May 2025, which Indian AI healthcare startup announced plans to go public within two years, aiming to expand its diagnostic tools for conditions like tuberculosis and stroke?

- Ans**
- ☐ 1. HealthifyMe
 - ☐ 2. Niramai
 - ☐ 3. 1mg
 - ☒ 4. Qure.ai

Q.31 Which of the following Amendments clarified that the President must act in accordance with the advice of the Council of Ministers?

- Ans**
- ☐ 1. 44th Amendment
 - ☒ 2. 42nd Amendment
 - ☐ 3. 24th Amendment
 - ☐ 4. 74th Amendment

Q.32 What was the Congress leaders' approach to achieving limited self-government in the early years?

- Ans**
- ☐ 1. Peaceful petitions
 - ☒ 2. Violent protests
 - ☐ 3. Foreign intervention
 - ☐ 4. Revolutionary wars

Q.33 Which of the following states recorded the second-highest population density in 2011 as per the Census of India?

- Ans**
- ☐ 1. Madhya Pradesh
 - ☐ 2. Maharashtra
 - ☐ 3. Uttar Pradesh
 - ☒ 4. West Bengal

Q.34 Which of the following options best describes the purpose of the Red Data Book?

- Ans**
- ☐ 1. A list of protected forest areas
 - ☐ 2. A compilation of forest conservation laws
 - ☒ 3. A record of endangered plant and animal species
 - ☐ 4. A collection of tree species

Q.35 How are the one-third reserved seats for women distributed across different categories in local bodies?

- Ans**
- ☐ 1. Only one-third of the general (unreserved) seats are reserved for women, excluding reserved-category seats.
 - ☒ 2. One-third of all seats, including those reserved for SC/ST/OBC categories, are reserved for women, allowing a seat to be reserved simultaneously for a woman and for an SC/ST/OBC candidate.
 - ☐ 3. One-third reservation applies only to leadership positions such as Sarpanch or Chairperson.
 - ☐ 4. One-third reservation applies only to rural Panchayats and not to urban municipal bodies.

Q.36 Which of the following countries launched Operation Brahma for the earthquake in Myanmar?

- Ans**
- ☐ 1. Bhutan
 - ☐ 2. Thailand
 - ☒ 3. India
 - ☐ 4. Cambodia

Q.37 According to the Citizenship Act, how many years must a person ordinarily reside in India to apply for citizenship by naturalisation under general conditions?

- Ans**
- ☐ 1. 5 years
 - ☐ 2. 7 years
 - ☒ 3. 12 years
 - ☐ 4. 10 years

Q.38 The BIMSTEC Youth Summit 2025 was held in which city?

- Ans**
- ☒ 1. Gandhinagar
 - ☐ 2. Mumbai
 - ☐ 3. New Delhi
 - ☐ 4. Bengaluru

Q.39 Agricultural credit has grown significantly since liberalisation, though distribution remains uneven. Which institution is the apex body for rural credit in India?

- Ans**
- ☐ 1. RBI
 - ☐ 2. SIDBI
 - ☒ 3. NABARD
 - ☐ 4. FCI

Q.40 The Shaka dynasty in India was founded by ____.

- Ans**
- ☒ 1. Maues (Moga)
 - ☐ 2. Nahapana
 - ☐ 3. Rudradaman I
 - ☐ 4. Menander I

Section : Mathematics

Q.1 *The value of $2^2 + \sqrt{8^2} - 2\sqrt{4} - 11$ is*

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

Q.2 The product of two consecutive positive natural numbers is 272. The greater of the two numbers is:

- Ans**
- ☐ 1. 36
 - ☐ 2. 9
 - ☒ 3. 17
 - ☐ 4. 28

Q.3 Find the value of $[290 \div \{27 + 5 \times (2 - 7)\}]$.

- Ans**
- ☒ 1. 145
 - ☐ 2. 141
 - ☐ 3. 140
 - ☐ 4. 150

Q.4 What smallest number should be added to 81661 so that the sum is completely divisible by 73?

- Ans**
- ☐ 1. 25
 - ☐ 2. 24
 - ☒ 3. 26
 - ☐ 4. 30

Q.5 ABCD is a trapezium in which $BC \parallel AD$ and $AC = CD$. If $\angle ABC = 113^\circ$ and $\angle BAC = 26^\circ$, then what is the measure of $\angle ACD$ (in degree)?

- Ans**
- ☐ 1. 168°
 - ☐ 2. 165°
 - ☒ 3. 41°
 - ☐ 4. 166°

Q.6 A store sells a printer priced at ₹32,000, offering a trade discount of 9%. What is the discount amount?

- Ans**
- ☐ 1. ₹2,780
 - ☒ 2. ₹2,880
 - ☐ 3. ₹2,740
 - ☐ 4. ₹2,840

Q.7 Pipe A can fill a tank in 14 hours, pipe B can fill the same tank in 24 hours and pipe C can fill the same tank in 17 hours. The time taken by them to fill the same tank if they operate together is::

- Ans**
- ☒ 1. $5\frac{401}{491} \text{ hours}$
 - ☐ 2. $11\frac{401}{491} \text{ hours}$
 - ☐ 3. $10\frac{401}{491} \text{ hours}$
 - ☐ 4. $2\frac{401}{491} \text{ hours}$

Q.8 I bought two frocks for ₹1,200. I sold the first one at a loss of 10% and the second at a gain of 15%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first frock.

- Ans**
- ☐ 1. 740
 - ☐ 2. 744
 - ☐ 3. 704
 - ☒ 4. 720

Q.9 Train A leaves station M at 8:05 a.m. and reaches station N at 3:05 p.m. on the same day. Train B leaves station N at 10:05 a.m. and reaches station M at 3:05 p.m. on the same day. Find the time when Trains A and B meet.

- Ans**
- ☒ 1. 12:10 p.m.
 - ☐ 2. 12:30 p.m.
 - ☐ 3. 12:00 p.m.
 - ☐ 4. 11:50 a.m.

Q.10 Find the surface area of a cuboid with length 8 cm, breadth 5 cm and height 3 cm.

- Ans**
- ☐ 1. 140 cm^2
 - ☐ 2. 94 cm^2
 - ☒ 3. 158 cm^2
 - ☐ 4. 126 cm^2

Q.11 Priya can do a certain piece of work in 22 days. Priya and Varsha can together do the same work in 11 days, and Priya, Varsha and Nisha can do the same work together in 8 days. In how many days can Priya and Nisha do the same work?

- Ans**
- ☐ 1. $\frac{94}{9}$
 - ☐ 2. $\frac{95}{8}$
 - ☐ 3. $\frac{78}{7}$
 - ☒ 4. $\frac{88}{7}$

Q.12 Find the value of x satisfying: $5(5x^2 - 7) - 5(5x^2 + 2x - 4) = 15$

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

Q.13 What sum of money (in ₹) will amount to ₹2,280 at 4% per annum simple interest in 5 years?

- Ans**
- ☐ 1. ₹11,400
 - ☒ 2. ₹1,900
 - ☐ 3. ₹1,850
 - ☐ 4. ₹1,950

Q.14 Which of the following numbers divide 726179?

- Ans**
- ☐ 1. 29
 - ☐ 2. 28
 - ☒ 3. 23
 - ☐ 4. 20

Q.15 If the third proportional of 54 and 18 is x, then what is the value of x?

- Ans**
- ☐ 1. 5
 - ☒ 2. 6
 - ☐ 3. 9
 - ☐ 4. 3

Q.16 The average weight of Vipul, Mohan, and Mohammad is 46 kg. If the average weight of Vipul and Mohan is 36 kg and that of Mohan and Mohammad is 43 kg, then the weight of Mohan (in kg) is:

- Ans
- ☐ 1. 30
 - ☒ 2. 20
 - ☐ 3. 35
 - ☐ 4. 40

Q.17 The population of a district is 364000, out of which 178000 are males. 63% of the population is literate. If 63% males are literate, then what percentage of females are literate?

- Ans
- ☐ 1. 66%
 - ☐ 2. 62%
 - ☒ 3. 63%
 - ☐ 4. 65%

Q.18 A man driving a car at a speed of 75 km/hr crosses a bridge in 1.4 minutes. Find the length of the bridge.

- Ans
- ☐ 1. 1.02 km
 - ☒ 2. 1.75 km
 - ☐ 3. 1.18 km
 - ☐ 4. 1.01 km

Q.19 If 2 times a mother's present age is 27 years more than 9 times her daughter's present age, and 6 times the daughter's present age is 9 years less than the mother's present age, then what is the difference (in years) between the ages of the mother and the daughter?

- Ans
- ☐ 1. 21
 - ☐ 2. 29
 - ☒ 3. 24
 - ☐ 4. 23

Q.20 Find the simple interest (in ₹) on ₹4,000 at 6.75% per annum rate of interest deposited on 23 February 2024 and withdrawn on 24 April 2024.

- Ans
- ☐ 1. ₹43
 - ☐ 2. ₹44
 - ☒ 3. ₹45
 - ☐ 4. ₹46

Q.21 A jacket is marked at ₹8,000. The shopkeeper offers a 30% discount on the marked price. After the discount, a 12% sales tax is added on the discounted price. What is the final price of the jacket?

- Ans
- ☐ 1. ₹6,440
 - ☐ 2. ₹7,248
 - ☐ 3. ₹6,240
 - ☒ 4. ₹6,272

Q.22 Find the value of $\frac{\sin A - 2\sin^3 A}{2\cos^3 A - \cos A} + \sqrt{\operatorname{cosec}^2 A - 1}$.

- Ans
- ☒ 1. $\sec A \operatorname{cosec} A$
 - ☐ 2. $\operatorname{cosec}^2 A$
 - ☐ 3. $\sec^2 A$
 - ☐ 4. $\sec A$

Q.23 The perimeter of a square is 248 m. Its area (in m^2) is:

- Ans
- ☐ 1. 3848
 - ☐ 2. 3816
 - ☐ 3. 3840
 - ☒ 4. 3844

Q.24 Manoj, Swati and Rahul invested ₹1,020, ₹1,440 and ₹1,230, respectively to start a business. If the profit at the end of the year is ₹1,260, what is Rahul's share of the profit?

- Ans
- ☒ 1. ₹420
 - ☐ 2. ₹423
 - ☐ 3. ₹421
 - ☐ 4. ₹422

Q.25 The average weight (in kg) of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 73 kg and 39 kg is:

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

Q.26 A number when increased by 100% gives 2700. The number is:

- Ans
- ☒ 1. 1350
 - ☐ 2. 2700
 - ☐ 3. 4050
 - ☐ 4. 675

Q.27 The selling price of 50 books is equal to the cost price of 5 books. Find the loss or gain percentage.

- Ans
- ☒ 1. 90% loss
 - ☐ 2. 90% gain
 - ☐ 3. $\frac{100}{45}\%$ loss
 - ☐ 4. $\frac{100}{45}\%$ gain

Q.28 Which of the following numbers divides 15,99,16,901?

- Ans
- ☐ 1. 25
 - ☒ 2. 19
 - ☐ 3. 28
 - ☐ 4. 18

Q.29 M and N start a business. M invests ₹70,000 more than N for 3 months and N invests for 5 months. M's share is ₹288 more than that of N, out of a total profit of ₹4,896. Find the capital contributed by M.

- Ans
- ☒ 1. ₹1,50,000
 - ☐ 2. ₹1,40,000
 - ☐ 3. ₹1,80,000
 - ☐ 4. ₹1,60,000

Q.30 The LCM of $3^3 \times 8^2 \times 14$, $3^2 \times 14^2 \times 19$ and $8^3 \times 14^2 \times 19^2$ is:

- Ans**
- ☐ 1. $3^3 \times 8^2 \times 14^2 \times 19$
 - ☐ 2. $3^2 \times 8^2 \times 14^2 \times 19^3$
 - ☐ 3. $3^2 \times 8^3 \times 14 \times 19^2$
 - ☒ 4. $3^3 \times 8^3 \times 14^2 \times 19^2$

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. UQ-VR
 - ☐ 2. QM-RO
 - ☐ 3. SO-TQ
 - ☐ 4. WS-XU

Q.2 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 marks are tattoo.

No tattoo is a painting.

Conclusions:

(I): Some marks are painting.

(II): Some tattoo are mark.

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

Q.3 In a certain code language, 'DRUM' is coded as '2194' and 'CURD' is coded as '4592'. What is the code for 'C' in the given code language?

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

Q.4 What should come in place of the question mark (?) in the given series?

316 288 262 238 216 ?

- Ans**
- ☐ 1. 185
 - ☐ 2. 205
 - ☒ 3. 196
 - ☐ 4. 172

Q.5 In a row of people all facing north, Mukul is 5th from the right end. Alok is 10th from the right end. Alok is exactly between Mukul and Rohan. If Rohan is 6th from the left end of the line, how many people are there in the row?

- Ans**
- ☒ 1. 20
 - ☐ 2. 23
 - ☐ 3. 26
 - ☐ 4. 24

Q.6 What should come in place of the question mark (?) in the given series?

7 10 16 28 52 ?

- Ans
- ☐ 1. 99
 - ☐ 2. 104
 - ☒ 3. 100
 - ☐ 4. 102

Q.7 In a certain code language, 'TALK' is coded as '5327' and 'LINE' is coded as '6143'. What is the code for 'L' in the given code language?

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

Q.8 If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

(63 P 2) R (24 P 3) S (98 Q 2) R (48 Q 3) R 3 = ?

- Ans
- ☐ 1. 98
 - ☒ 2. 84
 - ☐ 3. 122
 - ☐ 4. 104

Q.9 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.

SAIN - ANIS - NIAS
COIN - ONIC - NIOC

- Ans
- ☐ 1. YOUR - YUOR - RUOY
 - ☐ 2. MACE - AMCE - EACM
 - ☒ 3. MILE - IELM - ELIM
 - ☐ 4. FEAT - EFAT - TEAF

Q.10 Refer to the following number, symbol series and answer the question. Counting to be done from left to right only.

(Left) 9 8 6 1 & & 2 ^ ^ \$ \$ > 5 ^ 6 ^ 4 & # 6 @ (Right)

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

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

Q.11 If 1 is added to each odd digit and 4 is subtracted from each even digit in the number 6854376, which of the following digits will be third from the right?

- Ans
- ☐ 1. 6
 - ☒ 2. 4
 - ☐ 3. 0
 - ☐ 4. 8

Q.12 B starts from Point A and drives 16 km towards the south. He then takes a right turn and drives 12 km, then turns right and drives 19 km. He then takes a right turn and drives 21 km. He takes a final right turn, drives 3 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. 4 km to the north
 - ☐ 2. 7 km to the east
 - ☒ 3. 9 km to the west
 - ☐ 4. 5 km to the west

Q.13 BSWK is related to GXTH in a certain way based on the English alphabetical order. In the same way, LCQE is related to QHNB. To which of the given options is VMKY related, following the same logic?

- Ans
- ☐ 1. AQIW
 - ☐ 2. BSGV
 - ☒ 3. ARHV
 - ☐ 4. ZRFU

Q.14 In a row of 49 students facing north, Amir is 22nd from the right end. If Tarun is 23rd to the left of Amir, what is Tarun's position from the left end of the line?

- Ans
- ☐ 1. 3rd
 - ☒ 2. 5th
 - ☐ 3. 4th
 - ☐ 4. 6th

Q.15 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 sharks are salmons.
Some salmons are tunas.

Conclusions:

- I. Some sharks are tunas.
- II. No tunas are sharks.

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

Q.16 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Only B is kept above C. Only two boxes are kept between C and A. Only E is kept below F. G is not kept immediately above A. How many boxes are kept below A?

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

Q.17 If + means 'subtraction', - means 'division', ÷ means 'multiplication', × means 'addition', then what will come in place of the question mark (?) in the following equation?

$$49 - 1 \times 480 + 40 \div 6 = ?$$

- Ans
- ☐ 1. 291
 - ☒ 2. 289
 - ☐ 3. 292
 - ☐ 4. 290

Q.18 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 W related to R if $W = A \$ C @ D * R$?

- Ans
- ☒ 1. Mother's mother
 - ☐ 2. Mother's sister
 - ☐ 3. Sister
 - ☐ 4. Mother

Q.19 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

FIB27 GJC38 HKD49 ILE60 ?

- Ans
- ☒ 1. JMF71
 - ☐ 2. JME70
 - ☐ 3. JME71
 - ☐ 4. JMF70

Q.20 Seven people, I, J, K, L, M, N and O, are sitting in a row, facing north. No one sits to the right of K. Only three people sit between K and J. Only two people sit between J and I. L sits third to the left of O. M sits to the immediate right of O. How many people sit between N and I?

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

Q.21 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

WXA UWB SVC QUD OTE ?

- Ans
- ☐ 1. MRF
 - ☐ 2. LRF
 - ☒ 3. MSF
 - ☐ 4. MRE

Q.22 Suresh starts from Point Y and drives 25 km towards south. He then takes a left turn, drives 7 km. He then turns right and drives 5 km. He takes a final right turn, drives 7 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° turns only unless specified.)

- Ans
- ☒ 1. 30 km towards north
 - ☐ 2. 7 km towards west
 - ☐ 3. 14 km towards south
 - ☐ 4. 25 km towards east

Q.23 ORJN is related to ILDH in a certain way based on the English alphabetical order. In the same way, MPHL is related to GJBF. To which of the given options is TWOS related, following the same logic?

- Ans**
- ☐ 1. QNMI
 - ☐ 2. QNIM
 - ☐ 3. NQMI
 - ☒ 4. NQIM

Q.24 A, B, C, D, E, F and G are sitting around a circular table facing the centre. B sits second to the right of A. G sits second to the right of B. C is the immediate neighbour of E and G. D sits second to the right of E. How many people sit between F and E when counted from the left of E?

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

Q.25 If 1 is added to each even digit of the number 85624179, find the sum of the digits that are repeated more than once in the new number thus formed.

- Ans**
- ☐ 1. 12
 - ☐ 2. 16
 - ☐ 3. 14
 - ☒ 4. 21

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

981 982 986 995 1011 ?

- Ans**
- ☐ 1. 1026
 - ☒ 2. 1036
 - ☐ 3. 1021
 - ☐ 4. 1031

Q.27 This question is based on the five, three-digit numbers given below.

(Left) 716 893 279 546 182 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)

(NOTE: All operations to be done from left to right.)

If the given numbers are rearranged in descending order, what is the third digit of the fourth number from the left extreme end?

- Ans**
- ☐ 1. 4
 - ☒ 2. 9
 - ☐ 3. 6
 - ☐ 4. 7

Q.28 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)





- Ans**
- ☒ 1. KO-ON
 - ☐ 2. CG-FG
 - ☐ 3. AE-DE
 - ☐ 4. SW-VW

Q.29 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.)

9, 108
16, 192

- Ans**
-  1. 14, 154
 -  2. 6, 66
 -  3. 12, 162
 -  4. 11, 132

Q.30 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. FMH
 -  2. KRM
 -  3. DKE
 -  4. HOJ