



## 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	12/08/2025
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 Which country hosted the 6<sup>th</sup> BIMSTEC Summit in March 2025?

- Ans
- ☒ 1. Bangladesh
  - ☒ 2. India
  - ☒ 3. Thailand
  - ☒ 4. Sri Lanka

Q.2 Which of the following is a water pollutant?

- Ans
- ☒ 1. Carbon dioxide
  - ☒ 2. Lead
  - ☒ 3. Oxygen
  - ☒ 4. Nitrogen gas

Q.3 Who was called the 'Grand Old Man of India' and the first Indian to demand Swaraj?

- Ans
- ☒ 1. Surendranath Banerjee
  - ☒ 2. Gopal Krishna Gokhale
  - ☒ 3. Bal Gangadhar Tilak
  - ☒ 4. Dadabhai Naoroji

Q.4 The Queen's Stepwell in Gujarat, known officially as Rani-ki-Vav, is situated along the course of which river?

- Ans
- ☒ 1. Sabarmati
  - ☒ 2. Tapi
  - ☒ 3. Saraswati
  - ☒ 4. Narmada

Q.5 After its 1971 electoral victory, Indira Gandhi's government amended the Constitution to remove legal obstacles to abolishing which of the following privileges?

- Ans
- ☒ 1. Zamindari system
  - ☒ 2. Monopoly trade licenses
  - ☒ 3. Privy purses of former princely rulers
  - ☒ 4. Separate electorates for minorities

**Q.6 Which two countries signed a historic peace treaty on 13 March 2025, ending nearly four decades of conflict over the Nagorno-Karabakh region?**

- Ans**
- ☐ 1. Azerbaijan and Georgia
  - ☐ 2. Armenia and Turkey
  - ☐ 3. Georgia and Russia
  - ☒ 4. Armenia and Azerbaijan

**Q.7 Which of the following statements about the Gram Sabha is correct?**

- Ans**
- ☐ 1. It consists only of elected members of the Gram Panchayat.
  - ☐ 2. It has authority to override the decisions of the Panchayat.
  - ☐ 3. It meets only once every five years.
  - ☒ 4. It comprises all adult voters in the Panchayat area; its role is defined by state law.

**Q.8 The primary sector saw uneven regional development during 1947-91. Which region benefitted the most from the Green Revolution?**

- Ans**
- ☐ 1. Western India
  - ☐ 2. Eastern India
  - ☒ 3. Northern India
  - ☐ 4. Southern India

**Q.9 Which of the following types of memory is volatile, meaning its contents are lost when the computer is turned off?**

- Ans**
- ☐ 1. ROM
  - ☐ 2. Hard Disk
  - ☐ 3. Pen Drive
  - ☒ 4. RAM

**Q.10 What was the mascot name of Khelo India Youth Games 2025 held in Bihar in May 2025?**

- Ans**
- ☐ 1. Appu
  - ☐ 2. Nini
  - ☐ 3. Dou Dou
  - ☒ 4. Gajsimha

**Q.11 The first cross-country pipeline in Asia connected the Naharkatiya oilfield in Assam to which refinery?**

- Ans**
- ☐ 1. Mathura Refinery
  - ☐ 2. Haldia Refinery
  - ☒ 3. Barauni Refinery
  - ☐ 4. Panipat Refinery

**Q.12 What was the name of stadium where India beat Bangladesh in South Asian Football Federation (SAFF) Under-19 Championship 2025?**

- Ans**
- ☐ 1. JRD Tata Sports Complex, Jamshedpur
  - ☒ 2. Yupia Outdoor Stadium, Arunachal Pradesh
  - ☐ 3. Jawaharlal Nehru Stadium, Delhi
  - ☐ 4. Salt Lake Stadium, Kolkata

**Q.13 If the temperature of air increases, what happens to the speed of sound and the minimum distance to hear an echo?**

- Ans**
- ☐ 1. Speed decreases, minimum distance increases
  - ☐ 2. Speed increases, minimum distance decreases
  - ☒ 3. Speed increases, minimum distance increases
  - ☐ 4. Speed decreases, minimum distance decreases

**Q.14** The 25<sup>th</sup> Amendment curtailed the right to property by amending which Article of Indian Constitution?

- Ans**
- ☐ 1. Article 33
  - ☐ 2. Article 12
  - ☐ 3. Article 13
  - ☒ 4. Article 31

**Q.15** Which of the following is a Buddhist text containing stories related to the previous births of the Buddha?

- Ans**
- ☐ 1. Panchatantra
  - ☒ 2. Jatakas
  - ☐ 3. Arthashastra
  - ☐ 4. Manusmriti

**Q.16** Which of the following best defines the strategy of Passive Resistance as advocated by Extremists?

- Ans**
- ☒ 1. Boycott, Swadeshi and non-cooperation with rulers
  - ☐ 2. Assassination of British officers
  - ☐ 3. Military training of Indian youth abroad
  - ☐ 4. Armed confrontation with colonial forces

**Q.17** Which of the following natural regions is known for evergreen dense forests and high biodiversity?

- Ans**
- ☒ 1. Equatorial region
  - ☐ 2. Tundra region
  - ☐ 3. Steppe region
  - ☐ 4. Mediterranean region

**Q.18** A mixed economy involves both private and public ownership. What was a distinctive feature of India's mixed economy model?

- Ans**
- ☒ 1. Public sector dominance in core industries
  - ☐ 2. Absence of licensing
  - ☐ 3. Full privatisation
  - ☐ 4. Focus on consumerism

**Q.19** What is the significance of DRDO's successful test of the Long-Range Anti-Ship Missile (LRAShM) in 2025?

- Ans**
- ☐ 1. It replaced the need for aircraft carriers
  - ☒ 2. It enhances India's strategic deterrence capabilities
  - ☐ 3. It was the first missile to use solar propulsion
  - ☐ 4. It marked India's first hypersonic missile test

**Q.20** What is baking soda chemically known as?

- Ans**
- ☐ 1. Sodium carbonate
  - ☒ 2. Sodium bicarbonate
  - ☐ 3. Calcium carbonate
  - ☐ 4. Magnesium hydroxide

**Q.21** The vast network of railways that helped people meet their family and relatives was pioneered during the latter half of which of the following centuries in India?

- Ans**
- ☒ 1. 19<sup>th</sup>
  - ☐ 2. 17<sup>th</sup>
  - ☐ 3. 20<sup>th</sup>
  - ☐ 4. 18<sup>th</sup>

**Q.22** The Harappans were first in Eurasia to grow \_\_\_\_.

- Ans**
- ☐ 1. Indigo
  - ☐ 2. Mustard Seeds
  - ☐ 3. Potato
  - ☒ 4. Cotton

**Q.23** Which of the following options best describes the state of Indian industries under British rule?

- Ans**
- ☐ 1. Promotion of indigenous entrepreneurship
  - ☐ 2. Rapid growth of modern manufacturing
  - ☐ 3. Widespread industrialisation across rural India
  - ☒ 4. Systematic decline of traditional industries

**Q.24** In the 2024 Global Innovation Index, which country was ranked as the most innovative?

- Ans**
- ☐ 1. United States
  - ☒ 2. Switzerland
  - ☐ 3. Singapore
  - ☐ 4. Sweden

**Q.25** As per the 'India State of Forest Report 2023 (ISFR 2023), which Indian state has the largest forest cover (area-wise) in the country?

- Ans**
- ☐ 1. Arunachal Pradesh
  - ☒ 2. Madhya Pradesh
  - ☐ 3. Chhattisgarh
  - ☐ 4. Uttar Pradesh

**Q.26** Which of the following types of cases is NOT generally taken up by Lok Adalats in India?

- Ans**
- ☒ 1. Murder trials
  - ☐ 2. Motor accident claims
  - ☐ 3. Divorce settlements
  - ☐ 4. Utility bill disputes

**Q.27** What is the dimensional formula for mechanical energy that refers to the total energy of an object due to its position and motion?

- Ans**
- ☐ 1.  $[ML^2T^{-3}]$
  - ☐ 2.  $[M^1L^2]$
  - ☐ 3.  $[M^2L^2T^{-1}]$
  - ☒ 4.  $[M^1L^2T^{-2}]$

**Q.28** According to a Times of India report from April 2025, there have been plans to locally manufacture which tetravalent dengue vaccine under the 'Make-in-India' initiative?

- Ans**
- ☐ 1. CYD-TDCV
  - ☐ 2. Dengvaxia
  - ☐ 3. TV003 / TV005
  - ☒ 4. QDENGA (TAK-003)

**Q.29** On 15 May 2025, the Supreme Court of India issued an immediate direction to the Centre to set up dedicated courts to deal with which cases?

- Ans**
- ☐ 1. Serious offenses like murder
  - ☐ 2. Constitutional interpretations
  - ☐ 3. Dowry harassment
  - ☒ 4. Child sexual abuse

**Q.30** What happens when you create a folder with the same name in the same location?

- Ans**
- ☒ 1. It gives an error.
  - ☐ 2. It replaces the old folder.
  - ☐ 3. It opens the original folder.
  - ☐ 4. The system automatically renames it.

**Q.31** As per Deloitte, how much will AI in healthcare boost India's GDP by 2025?

- Ans**
- ☐ 1. USD 35–40 billion
  - ☒ 2. USD 25–30 billion
  - ☐ 3. USD 12–18 billion
  - ☐ 4. USD 45–50 billion

**Q.32** Netaji Subhash Chandra Bose Dweep is a part of which island?

- Ans**
- ☐ 1. Majuli Island
  - ☐ 2. Rameswaram Island
  - ☐ 3. Lakshadweep Islands
  - ☒ 4. Andaman Islands

**Q.33** Crafted using the lost-wax technique in Mohenjo-daro, a significant city of the Indus Valley Civilisation, the prehistoric Dancing Girl figurine is primarily made of which of the following materials?

- Ans**
- ☐ 1. Stone
  - ☐ 2. Copper
  - ☐ 3. Terracotta
  - ☒ 4. Bronze

**Q.34** Which country won both the Men's and Women's titles at the Kabaddi World Cup 2025, held at Wolverhampton in England?

- Ans**
- ☐ 1. Iran
  - ☐ 2. Pakistan
  - ☐ 3. Bangladesh
  - ☒ 4. India

**Q.35** Which is the first Indian state/UT to launch the nPROUD (New Programme for Removal of Unused Drugs) project?

- Ans**
- ☐ 1. Delhi
  - ☒ 2. Kerala
  - ☐ 3. Maharashtra
  - ☐ 4. Telangana

**Q.36** Which of the following initiatives was launched by the National Commission for Women (NCW) on 22 May 2025 to promote AI literacy and digital safety among women, especially in rural and semi-urban areas?

- Ans**
- ☒ 1. Yashoda AI: Your AI SAKHI
  - ☐ 2. Tech Sakhi: Empowering Women
  - ☐ 3. Digital Shakti: Women in Tech
  - ☐ 4. Cyber Sakhi: AI Awareness Program

**Q.37** Harsabardhan Sahu who built a new record in the field of 49 kg (Clean and Jerk) Weightlifting category, at Khelo India Youth Games 2025 is from which state?

- Ans**
- ☐ 1. Assam
  - ☐ 2. Bihar
  - ☒ 3. Odisha
  - ☐ 4. Mizoram

**Q.38** The typical landform seen in the Thar Desert is:

- Ans**
- ☒ 1. sand dunes
  - ☐ 2. glacial moraines
  - ☐ 3. river deltas
  - ☐ 4. alluvial plains

**Q.39** Which of the following is the main objective of the Right to Information Act?

- Ans**
- ☐ 1. To ensure secrecy in public administration
  - ☐ 2. To provide private data to media houses
  - ☒ 3. To promote transparency and accountability
  - ☐ 4. To prevent public access to government records

**Q.40** Tariff reforms were central to the liberalisation of trade. What happened to import tariffs after 1991?

- Ans**
- ☐ 1. It increased
  - ☒ 2. It gradually reduced
  - ☐ 3. It remained unchanged
  - ☐ 4. It was replaced with import bans

#### Section : Mathematics

**Q.1** The population of a district is 328000, out of which 164000 are males. 24% of the population is literate. If 34% males are literate, then what percentage of females are literate?

- Ans**
- ☐ 1. 13%
  - ☐ 2. 11%
  - ☐ 3. 17%
  - ☒ 4. 14%

**Q.2** If the 6-digit number N75M52 is divisible by 11, then which of the options below can give a possible correct relation between M and N?

- Ans**
- ☐ 1.  $M = N$
  - ☒ 2.  $M - N = 1$
  - ☐ 3.  $M + N = -1$
  - ☐ 4.  $M - N = 5$

**Q.3** A number, when decreased by 6%, gives 3760. The number is:

- Ans**
- ☐ 1. 2000
  - ☒ 2. 4000
  - ☐ 3. 12000
  - ☐ 4. 8000

**Q.4** If the third proportional of 9 and 60 be x, then what is the value of x?

- Ans**
- ☐ 1. 398
  - ☒ 2. 400
  - ☐ 3. 402
  - ☐ 4. 401

**Q.5** The product of two consecutive natural numbers is 552. The greater of the two numbers is:

- Ans**
- ☒ 1. 24
  - ☐ 2. 18
  - ☐ 3. 15
  - ☐ 4. 27

**Q.6** Which of the following numbers divides 6,30,605?

- Ans**
- ☐ 1. 3
  - ☒ 2. 5
  - ☐ 3. 7
  - ☐ 4. 14

**Q.7** What is the perimeter of an equilateral triangle with side 13 cm?

- Ans**
- ☐ 1. 52 cm
  - ☒ 2. 39 cm
  - ☐ 3. 40 cm
  - ☐ 4. 26 cm

**Q.8** The LCM of  $3^3 \times 8^2 \times 13$ ,  $3^2 \times 13^2 \times 16$  and  $8^3 \times 13^2 \times 16^2$  is:

- Ans**
- ☒ 1.  $3^3 \times 8^3 \times 13^2 \times 16^2$
  - ☐ 2.  $3^3 \times 8^2 \times 13^2 \times 16$
  - ☐ 3.  $3^2 \times 8^3 \times 13 \times 16^2$
  - ☐ 4.  $3^2 \times 8^2 \times 13^2 \times 16^3$

**Q.9** The number 253118139 is divisible by which of the following?

- Ans**
- ☒ 1. 3
  - ☐ 2. 12
  - ☐ 3. 5
  - ☐ 4. 8

**Q.10** The average of first 169 even numbers is

- Ans**
- ☒ 1. 170
  - ☐ 2. 171
  - ☐ 3. 169.5
  - ☐ 4. 170.5

**Q.11** A shopkeeper offers the following three schemes. Which scheme has the maximum discount percent?

- I. Two successive discounts of 15% and 20%.
- II. Buy 4 get 2 free.
- III. Buy 6 get 4 free

**Ans** ☒ 1. III only  
☐ 2. I only  
☐ 3. Both I and II  
☐ 4. II only

**Q.12** Daksh travels 200 km at 50 km/hr, the next 252 km at 42 km/hr and the next 204 km at 51 km/hr. What is his average speed (in km/hr) for the whole journey? (Round off your answer to two decimal places)

**Ans** ☐ 1. 53.31  
☐ 2. 38.25  
☒ 3. 46.86  
☐ 4. 53.45

**Q.13** Veer bought some sharpeners at the rate of ₹180/dozen. He sold them for ₹23 each. His profit percentage is \_\_\_\_\_% (rounded off to two decimal places).

**Ans** ☐ 1. 51.33  
☒ 2. 53.33  
☐ 3. 57.33  
☐ 4. 55.33

**Q.14** Pipe P can fill  $\frac{2}{3}$  part of a tank in 16 hours, and pipe Q can fill  $\frac{5}{6}$  part of the same tank in 20 hours.

Both P and Q were kept open for 2 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in 8 hours. Pipes P, Q and R together can fill the empty tank in:

**Ans** ☐ 1. 8 hours  
☒ 2. 16 hours  
☐ 3. 29 hours  
☐ 4. 26 hours

**Q.15** Simplify  $x(9x - 8) + 7(x^2 - 3) + 18$ .

**Ans** ☐ 1.  $16x^2 - 8x + 3$   
☐ 2.  $-16x^2 - 8x + 3$   
☐ 3.  $-16x^2 - 8x - 3$   
☒ 4.  $16x^2 - 8x - 3$

**Q.16** M and N start a business. M invests ₹68,000 more than N for 4 months and N invests for 7 months. M's share is ₹856 more than that of N, out of a total profit of ₹6,848. Find the capital contributed by M.

**Ans** ☒ 1. ₹1,22,400  
☐ 2. ₹1,22,000  
☐ 3. ₹1,23,000  
☐ 4. ₹1,23,400

**Q.17** A bus travelling at 66 km/hr completes a journey in 15 hours. What should be its speed to cover the same distance in 5 hours?

**Ans** ☐ 1. 202 km/hr  
☐ 2. 203 km/hr  
☒ 3. 198 km/hr  
☐ 4. 193 km/hr



**Q.18** The perimeter of a square is 76 m. Its area (in  $\text{m}^2$ ) is:

- Ans**
- ☐ 1. 372
  - ☐ 2. 360
  - ☒ 3. 361
  - ☐ 4. 336

**Q.19** Evaluate:  $-12 - \{-8 \times (6 - 12) + 30 \div (-6)\}$

- Ans**
- ☐ 1. -57
  - ☐ 2. -52
  - ☒ 3. -55
  - ☐ 4. -58

**Q.20** Find the simple interest (in ₹) if a sum of ₹400 is borrowed for 5.5 years at 12% per annum rate of interest.

- Ans**
- ☐ 1. 364
  - ☒ 2. 264
  - ☐ 3. 314
  - ☐ 4. 244

**Q.21** A sum of money triples itself at a certain rate of compound interest in 11 years. In how many years will it amount to 27 times of itself?

- Ans**
- ☐ 1. 37 years
  - ☐ 2. 26 years
  - ☒ 3. 33 years
  - ☐ 4. 31 years

**Q.22** Rekha, Sanjay, and Poonam invest ₹1,320, ₹1,170, and ₹1,660, respectively, to start a business. If the profit at the end of the year is ₹1,010, then what is the share of Poonam in the profit?

- Ans**
- ☐ 1. ₹407
  - ☐ 2. ₹405
  - ☐ 3. ₹402
  - ☒ 4. ₹404

**Q.23** A shopkeeper lists the price of a fan at 60% above its cost price and offers a 15% discount on its list price. If he earns a profit of ₹117, then what is the list price (in ₹) of the fan?

- Ans**
- ☐ 1. 283
  - ☐ 2. 470
  - ☐ 3. 398
  - ☒ 4. 520

**Q.24** ABCD is a trapezium in which  $BC \parallel AD$  and  $AC = CD$ . If  $\angle ABC = 24^\circ$  and  $\angle BAC = 112^\circ$ , then what is the measure of  $\angle ACD$  (in degree)?

- Ans**
- ☐ 1.  $99^\circ$
  - ☐ 2.  $90^\circ$
  - ☒ 3.  $92^\circ$
  - ☐ 4.  $77^\circ$

Q.25 The average weight (in kg) of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 74 kg and 35 kg is:

- Ans
- ☒ 1. 50.8
  - ☐ 2. 49.8
  - ☐ 3. 52.8
  - ☐ 4. 51.8

Q.26 Five times the present age of P exceeds the present age of Q by 29 years. After 8 years, five times Q's age will be 17 years less than seven times P's age at that time. What is the present age (in years) of Q?

- Ans
- ☐ 1. 3
  - ☐ 2. 5
  - ☐ 3. 6
  - ☒ 4. 11

Q.27 Find the value of  $47^{-8} \div 47^3 \times 47^{-19}$ .

- Ans
- ☒ 1.  $47^{-30}$
  - ☐ 2.  $47^{-24}$
  - ☐ 3.  $47^{-27}$
  - ☐ 4.  $47^{-37}$

Q.28 The marked price of an article is ₹800. It is sold at two successive discounts of 24% and 15%, respectively. Find the selling price of the article.

- Ans
- ☐ 1. ₹595.48
  - ☐ 2. ₹686.42
  - ☒ 3. ₹516.80
  - ☐ 4. ₹625.78

Q.29 Simplify:  $(\cos^4 A - \sin^4 A + 1) \operatorname{cosec}^2 A$

- Ans
- ☐ 1.  $\tan^2 A$
  - ☒ 2.  $2 \cot^2 A$
  - ☐ 3.  $\cot^2 A$
  - ☐ 4.  $2 \tan^2 A$

Q.30 Pipe A can fill a tank in 18 hours, pipe B can fill the same tank in 30 hours and pipe C can fill the same tank in 18 hours. The time taken by them to fill the same tank if they operate together is::

- Ans
- ☐ 1.  $11\frac{12}{13}$  hours
  - ☐ 2.  $2\frac{12}{13}$  hours
  - ☒ 3.  $6\frac{12}{13}$  hours
  - ☐ 4.  $13\frac{12}{13}$  hours

**Q.1** In a certain code language, 'FATE' is coded as '3257' and 'AIDS' is coded as '6142'. What is the code for 'A' in the given code language?

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

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

YQT VNQ SKN PHK ?

- Ans**
- ☒ 1. MEH
  - ☐ 2. MEG
  - ☐ 3. MFG
  - ☐ 4. MFH

**Q.3** What should come in place of the question mark (?) in the given series?

801 800 792 765 701 ?

- Ans**
- ☒ 1. 576
  - ☐ 2. 676
  - ☐ 3. 656
  - ☐ 4. 556

**Q.4** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$17 \div 5 - 25 + 42 \times 7 = ?$

- Ans**
- ☒ 1. 104
  - ☐ 2. 106
  - ☐ 3. 105
  - ☐ 4. 103

**Q.5** 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. QU - VZ
  - ☐ 2. OS - TX
  - ☒ 3. JL - MK
  - ☐ 4. EI - JN

**Q.6** SACU is related to ZHJB in a certain way based on the English alphabetical order. In the same way, UCEW is related to BJLD. To which of the following is PXZR related, following the same logic?

- Ans**
- ☒ 1. WEGY
  - ☐ 2. GWER
  - ☐ 3. GTRE
  - ☐ 4. GERT

**Q.7** Manoj starts from point E and drives 4 km towards west. He then takes a left turn and drives 5 km. He takes a right turn and drives 2 km. He then takes a left turn and drives 2 km. He takes another left turn and drives 3 km. He again takes a left turn and drives 2 km. He takes a final right turn and drives 3 km to reach a point D. How far (shortest distance) and towards which direction should he drive in order to reach point E again? (All turns are 90-degree turns only unless otherwise specified.)

- Ans**
- ☐ 1. 4 km east
  - ☐ 2. 3 km east
  - ☒ 3. 5 km north
  - ☐ 4. 3 km north

**Q.8** 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 globes are ball.  
All globes are map.

**Conclusions:**

(I): Some balls are map.

(II): All map are globe.

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

**Q.9** 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. MG - RA
  - ☐ 2. YE - DY
  - ☐ 3. IL - NF
  - ☒ 4. FV - KO

**Q.10** 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.

SONG - OSGN - GNOS  
DAWN - ADWN - NWAD

- Ans**
- ☒ 1. PLOG - LPOG - GOLP
  - ☐ 2. ROLE - ORLE - OLER
  - ☐ 3. EXIL - EIXL - LIXE
  - ☐ 4. OPEN - POEN - NPEO

**Q.11** What should come in place of the question mark (?) in the given series?

101 110 121 134 149 ?

- Ans**
- ☐ 1. 163
  - ☐ 2. 159
  - ☐ 3. 156
  - ☒ 4. 166

Q.12 If '+' means 'subtraction', '-' means 'multiplication', 'x' means 'division' and '÷' means 'addition', then what will come in place of the question mark (?) in the following equation?

$$9 - 5 + 82 \times 2 \div 17 = ?$$

- Ans
- ☐ 1. 31
  - ☐ 2. 27
  - ☒ 3. 21
  - ☐ 4. 24

Q.13 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. JN-IK
  - ☐ 2. DH-CF
  - ☐ 3. GK-FI
  - ☐ 4. QU-PS

Q.14 Refer to the following number and symbol series and answer the question that follows.  
Counting to be done from left to right only.

(Left) < 7 5 9 @ ? 2 @ + \$ 4 ? ? & 2 \$ 5 ? 1 % \* (Right)

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

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

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 conclusions logically follow(s) from the statements.

**Statements:**

All sparrows are owls.  
No sparrow is a parrot.

**Conclusions:**

(I): No owl is a parrot.  
(II): No parrot is a sparrow.

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

QNK WTQ CZW IFC ?

- Ans
- ☐ 1. OIL
  - ☐ 2. LOI
  - ☒ 3. OLI
  - ☐ 4. LIO

**Q.17** Each of the digits in the number 8731245 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. One
  - ☐ 2. Three
  - ☐ 3. Two
  - ☐ 4. None

**Q.18** Varun ranked 34<sup>th</sup> from the top and 11<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans**
- ☐ 1. 42
  - ☐ 2. 43
  - ☐ 3. 45
  - ☒ 4. 44

**Q.19** In a certain code language, 'am with you' is coded as 'mp rk tp' and 'go with him' is coded as 'rk lo wt'. How is 'with' coded in the given language?

- Ans**
- ☒ 1. rk
  - ☐ 2. lo
  - ☐ 3. mp
  - ☐ 4. tp

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

HJS : JNV  
ACJ : CGM

- Ans**
- ☐ 1. LHS : NLW
  - ☒ 2. ORC : QVF
  - ☐ 3. OPC : QSG
  - ☐ 4. WSK : YWM

**Q.21** What should come in place of the question mark (?) in the given series?

40 , 48 , 58 , 66 , 76 , ?

- Ans**
- ☐ 1. 85
  - ☐ 2. 89
  - ☒ 3. 84
  - ☐ 4. 86

**Q.22** Seven people, I, J, K, L, M, N and O, are sitting in a row, facing north. Only three people sit between M and J. O sits to the immediate left of J. No one sits to the right of I. Only two people sit between I and O. N sits to the immediate right of L. How many people sit between K and N?

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

**Q.23** Piyush ranked 35<sup>th</sup> from the top and 18<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans**
- ☐ 1. 53
  - ☒ 2. 52
  - ☐ 3. 54
  - ☐ 4. 51

**Q.24** 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.)

(112, 104, 96)  
(136, 128, 120)

- Ans**
- ☒ 1. (129, 121, 116)
  - ☒ 2. (91, 83, 77)
  - ☒ 3. (140, 134, 130)
  - ☒ 4. (154, 146, 138)

**Q.25** Each of the digits in the number 81674293 is arranged in ascending order from left to right. Which of the following digits will be fourth from the left?

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

**Q.26** Refer to the following number and symbol series and answer the question that follows.  
All numbers are single-digit numbers. Counting to be done from left to right only.

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

How many symbols in the series are immediately preceded by a symbol and immediately followed by a number?

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

**Q.27** Mr. Into ranked 96<sup>th</sup> from the top and 31<sup>st</sup> from the bottom in his class. How many students are there in his class?

- Ans**
- ☒ 1. 126
  - ☒ 2. 128
  - ☒ 3. 123
  - ☒ 4. 125

**Q.28** A is the father of H. H is the father of G. G is the son of E. F is the father of E. How is A related to F?

- Ans**
- ☒ 1. Daughter's husband's father
  - ☒ 2. Daughter's husband's brother
  - ☒ 3. Husband's father
  - ☒ 4. Daughter's husband

**Q.29** A, B, C, D, E, F, and G are sitting around a circular table facing the centre.  
Only two people sit between A and G when counted from the right of A. Only two people sit between G and C. Only three people sit between A and F. E sits to the immediate left of D.  
How many people sit between C and E when counted from the right of C?

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

**Q.30** Town Q is to the east of Town P. Town R is to the south of Town Q. Town S is to the east of Town R. Town T is to the south of Town S. Town U is to the east of Town T. What is the position of Town U with respect to Town Q?

- Ans**
-  1. North-east
  -  2. North-west
  -  3. North
  -  4. South-east