



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	03/09/2025
Test Time	9:00 AM - 10:30 AM
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 reaction occurs when an alkoxide ion attacks a primary alkyl halide via SN2 mechanism?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Arndt-Eistert synthesis</div> <div><div><input checked="" type="checkbox"/></div>2. Friedlaender synthesis</div> <div><div><input checked="" type="checkbox"/></div>3. Williamson synthesis</div> <div><div><input checked="" type="checkbox"/></div>4. Coumarin synthesis</div>
Q.2	Jharkhand has announced its first tiger safari in the Barwadih Western Forest Range; it is a part of which tiger reserve?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Bandipur Tiger Reserve</div> <div><div><input checked="" type="checkbox"/></div>2. Sanjay Gandhi Tiger Reserve</div> <div><div><input checked="" type="checkbox"/></div>3. Palamau Tiger Reserve</div> <div><div><input checked="" type="checkbox"/></div>4. Pench Tiger Reserve</div>
Q.3	Hills of Kaimur, the easternmost part of the Vindhya Range, which begins near Jabalpur districts of Madhya Pradesh, ends near which district of Bihar?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Patna</div> <div><div><input checked="" type="checkbox"/></div>2. Nawada</div> <div><div><input checked="" type="checkbox"/></div>3. Rohtas</div> <div><div><input checked="" type="checkbox"/></div>4. Munger</div>
Q.4	Which of the following is true about the original jurisdiction of the Supreme Court of India?
Ans	<div><div><input checked="" type="checkbox"/></div>1. It reviews the decisions of tribunals</div> <div><div><input checked="" type="checkbox"/></div>2. It grants pardons to criminals</div> <div><div><input checked="" type="checkbox"/></div>3. It settles disputes between the Union and states</div> <div><div><input checked="" type="checkbox"/></div>4. It deals with criminal appeals only</div>
Q.5	What is the disintegration of rocks into smaller fragments without any change in their chemical composition called?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Exfoliation</div> <div><div><input checked="" type="checkbox"/></div>2. Block disintegration</div> <div><div><input checked="" type="checkbox"/></div>3. Mechanical weathering</div> <div><div><input checked="" type="checkbox"/></div>4. Frost Action</div>

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Q.6 Which of the following is a major challenge for Indian cities due to rapid urbanisation?

- Ans
- ☐ 1. Improved access to green spaces
 - ☐ 2. Decline in urban unemployment
 - ☒ 3. Pressure on infrastructure and services
 - ☐ 4. Enhanced walkability in all city zones

Q.7 The United Kingdom has signed an agreement to hand over Chagos Island to which of the following countries?

- Ans
- ☐ 1. Indonesia
 - ☒ 2. Mauritius
 - ☐ 3. Malaysia
 - ☐ 4. Madagascar

Q.8 In which of the following cities was the 2nd edition of Khelo India Para Games 2025 held in March 2025?

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

Q.9 What was the main characteristic of the Indian economy at the time of independence in 1947?

- Ans
- ☐ 1. High per capita income
 - ☐ 2. Self-sufficiency in food grains
 - ☐ 3. Dominance of the industrial sector
 - ☒ 4. Predominantly agrarian with low productivity

Q.10 Which of these is a distinct feature of a statutory corporation in India?

- Ans
- ☐ 1. It is fully owned by private shareholders and receives no government funding.
 - ☐ 2. It has no legal existence separate from the government.
 - ☒ 3. It is established by an Act, has a separate legal identity, and can sue or be sued.
 - ☐ 4. Its employees are considered government civil servants under the usual rules.

Q.11 Which of the following methods is used to rename a file or folder in MS Windows?

- Ans
- ☐ 1. Double-click the file to open it
 - ☐ 2. Right-click the file and select 'Delete'
 - ☐ 3. Press 'Ctrl + R'
 - ☒ 4. Right-click the file and select 'Rename'

Q.12 What is the official name of Kerala’s 2025 healthcare reform initiative?

- Ans
- ☐ 1. Better Health Blueprint
 - ☐ 2. Care4Kerala Mission
 - ☐ 3. Comprehensive Health Kerala
 - ☒ 4. Kerala Health System Improvement Programme

Q.13 Who introduced the Bharatiya Vayuyan Adhiniyam that was passed in the Rajya Sabha in December 2024?

- Ans
- ☒ 1. Ram Mohan Naidu
 - ☐ 2. Hardeep Singh Puri
 - ☐ 3. Jyotiraditya M Scindia
 - ☐ 4. Kiren Rijiju

Q.14	As of April 2025, what amount of monthly pension is given to players under Pandit Deendayal Upadhyay National Welfare Fund for Sportspersons (PDUNWFS) scheme?
Ans	<div><div><div>✖</div><div>1. ₹3,000</div></div><div><div>✔</div><div>2. ₹5,000</div></div><div><div>✖</div><div>3. ₹4,000</div></div><div><div>✖</div><div>4. ₹6,000</div></div></div>
Q.15	Which of the following factors most influences the uneven distribution of population in India?
Ans	<div><div><div>✖</div><div>1. Language diversity</div></div><div><div>✖</div><div>2. Trade union policies</div></div><div><div>✖</div><div>3. National income</div></div><div><div>✔</div><div>4. Soil fertility and water availability</div></div></div>
Q.16	Which of the following combinations of shortcut keys and functions is correctly matched?
Ans	<div><div><div>✖</div><div>1. Ctrl + Tab – Copies the selected text</div></div><div><div>✔</div><div>2. Ctrl + C – Copies content to the clipboard</div></div><div><div>✖</div><div>3. Ctrl + F – Switches between open tabs</div></div><div><div>✖</div><div>4. Ctrl + V – Finds a specific word in the document</div></div></div>
Q.17	Which Indian judgment laid down the concept of ‘Basic Structure’ of the Constitution?
Ans	<div><div><div>✖</div><div>1. Golaknath v. State of Punjab</div></div><div><div>✔</div><div>2. Kesavananda Bharati v. State of Kerala</div></div><div><div>✖</div><div>3. Minerva Mills v. Union of India</div></div><div><div>✖</div><div>4. Maneka Gandhi v. Union of India</div></div></div>
Q.18	Which law states that a compound always contains the same elements in the same proportion by mass?
Ans	<div><div><div>✖</div><div>1. Law of Conservation of Mass</div></div><div><div>✔</div><div>2. Law of Definite Proportions</div></div><div><div>✖</div><div>3. Law of Multiple Proportions</div></div><div><div>✖</div><div>4. Avogadro’s Law</div></div></div>
Q.19	Which of the following Indian players won ICC Men’s Player of the Month for March 2025?
Ans	<div><div><div>✖</div><div>1. Rohit Sharma</div></div><div><div>✖</div><div>2. KL Rahul</div></div><div><div>✖</div><div>3. Virat Kohli</div></div><div><div>✔</div><div>4. Shreyas Iyer</div></div></div>
Q.20	Which Indian institution, on 15 May 2025, collaborated with Japan’s Sharp Semiconductor Innovation Corporation (SSIC) to successfully test Beyond 5G (B5G) and 6G wireless technologies?
Ans	<div><div><div>✔</div><div>1. Indian Institute of Technology Hyderabad (IIT-H)</div></div><div><div>✖</div><div>2. Indian Institute of Technology Madras (IIT-M)</div></div><div><div>✖</div><div>3. Indian Institute of Technology Bombay (IIT-B)</div></div><div><div>✖</div><div>4. Indian Institute of Technology Delhi (IIT-D)</div></div></div>

Q.21	Who among the following joined the Planning Commission as its Vice-Chairman in March 1950?
Ans	<div><div><input type="checkbox"/></div>1. Jagjeevan Ram</div> <div><div><input type="checkbox"/></div>2. Shyama Prasad Mukherjee</div> <div><div><input type="checkbox"/></div>3. John Mathai</div> <div><div><input checked="" type="checkbox"/></div>4. Gulzarilal Nanda</div>
Q.22	Which Indian athlete broke the women’s shot put indoor national record at the Mountain West Indoor Track and Field Championships 2025?
Ans	<div><div><input type="checkbox"/></div>1. Navjeet Kaur Dhillon</div> <div><div><input type="checkbox"/></div>2. Kamalpreet Kaur</div> <div><div><input type="checkbox"/></div>3. Manpreet Kaur</div> <div><div><input checked="" type="checkbox"/></div>4. Krishna Jayasankar</div>
Q.23	Which Indian Army unit represented India in VINBAX, conducted in November 2024?
Ans	<div><div><input type="checkbox"/></div>1. Gorkha Rifles</div> <div><div><input checked="" type="checkbox"/></div>2. Corps of Engineers</div> <div><div><input type="checkbox"/></div>3. Mechanised Infantry Regiment</div> <div><div><input type="checkbox"/></div>4. Parachute Regiment</div>
Q.24	Which tribal revolt in 1831-32 was led by Buddho Bhagat and targeted exploitative landlords and British officials?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Kol Revolt</div> <div><div><input type="checkbox"/></div>2. Bhil Revolt</div> <div><div><input type="checkbox"/></div>3. Munda Revolt</div> <div><div><input type="checkbox"/></div>4. Santhal Revolt</div>
Q.25	Which renewable energy source has the largest installed capacity in India as of the year 2025?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Solar energy</div> <div><div><input type="checkbox"/></div>2. Hydro power</div> <div><div><input type="checkbox"/></div>3. Wind energy</div> <div><div><input type="checkbox"/></div>4. Geothermal energy</div>
Q.26	Who among the following is eligible to be appointed as the Chairperson of the Lokpal, as per the Lokpal and Lokayuktas Act, 2013?
Ans	<div><div><input type="checkbox"/></div>1. A retired Cabinet Secretary of India</div> <div><div><input type="checkbox"/></div>2. A sitting judge of a High Court</div> <div><div><input type="checkbox"/></div>3. A current Member of Parliament</div> <div><div><input checked="" type="checkbox"/></div>4. A former Judge of the Supreme Court</div>
Q.27	In which of the following years was the Central Goods and Services Tax Act enacted?
Ans	<div><div><input type="checkbox"/></div>1. 2007</div> <div><div><input type="checkbox"/></div>2. 2013</div> <div><div><input type="checkbox"/></div>3. 2009</div> <div><div><input checked="" type="checkbox"/></div>4. 2017</div>
Q.28	Which river from the following originates from the Amarkantak Plateau?
Ans	<div><div><input type="checkbox"/></div>1. Mahanadi</div> <div><div><input type="checkbox"/></div>2. Ganga</div> <div><div><input checked="" type="checkbox"/></div>3. Narmada</div> <div><div><input type="checkbox"/></div>4. Tapi</div>

Q.29 What is the main objective of the Khelo India scheme?

- Ans
- ☒

1. Strengthen sports culture and identify young talent
- ☐

2. Promote yoga in schools and colleges
- ☐

3. Build sport organisations and stadiums in metro cities
- ☐

4. Encourage traditional games and sports

Q.30 In which year was the first cases of the disease now known as acquired immunodeficiency syndrome (AIDS) identified?

- Ans
- ☐

1. 1988
- ☒

2. 1981
- ☐

3. 1992
- ☐

4. 1977

Q.31 The Pallava kings adopted which title to reflect that their rule was guided by the principles of the Dharmashastras?

- Ans
- ☐

1. Maharajadhiraja
- ☐

2. Chakravarti
- ☒

3. Dharma-Maharaja
- ☐

4. Rajadhiraja

Q.32 What is the tenure duration of Justice BR Gavai as the Chief Justice of India?

- Ans
- ☐

1. 1 year
- ☒

2. 6 months
- ☐

3. 2 years
- ☐

4. 3 years

Q.33 The 91st Amendment of the Indian Constitution was enacted in which year?

- Ans
- ☐

1. 2000
- ☐

2. 1989
- ☐

3. 1978
- ☒

4. 2003

Q.34 Which Schedule of the Constitution deals with the administration of Scheduled Areas in states, other than the Northeast?

- Ans
- ☐

1. Ninth Schedule
- ☐

2. Seventh Schedule
- ☒

3. Fifth Schedule
- ☐

4. Sixth Schedule

Q.35 What does globalisation mainly mean in economic terms?

- Ans
- ☐

1. Closing borders
- ☒

2. Connecting to the world economy
- ☐

3. Limiting trade
- ☐

4. Stopping foreign investment

Q.36 The five village committees (variyaams) such as neernilai variyam and needhi variyam were a unique administrative feature of which of the following dynasties?

- Ans
- ☒

1. Pandyas
- ☐

2. Guptas
- ☐

3. Satavahanas
- ☐

4. Mauryas

Q.37 Where and when is the final in-flight testing of the Kaveri Derivative Engine (KDE) scheduled, as part of its certification process?

- Ans
- ☐ 1. India, early 2025
 - ☒ 2. Russia, late 2025
 - ☐ 3. China, mid-2026
 - ☐ 4. France, late 2025

Q.38 Technological innovation was key to the success of the Green Revolution. The success of HYV seeds in India was contingent on which critical input?

- Ans
- ☐ 1. Forest cover
 - ☐ 2. Hand tools
 - ☒ 3. Chemical fertilisers
 - ☐ 4. Organic compost

Q.39 Which country took over the Chairmanship of the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) on 1 January 2025?

- Ans
- ☐ 1. Canada
 - ☒ 2. Australia
 - ☐ 3. Japan
 - ☐ 4. New Zealand

Q.40 Who was the Chief Architect behind the integration of over 560 princely states into the Indian Union?

- Ans
- ☒ 1. Sardar Vallabhbhai Patel
 - ☐ 2. Lord Mountbatten
 - ☐ 3. Jawaharlal Nehru
 - ☐ 4. Rajendra Prasad

Section : Mathematics

Q.1 The H.C.F. and the L.C.M. of two numbers are 4 and 208 respectively. If one of the numbers is 52, find the other one.

- Ans
- ☐ 1. 45
 - ☐ 2. 55
 - ☒ 3. 16
 - ☐ 4. 8

Q.2 Find the perimeter of a rectangular plot whose length is 68 m and area is 1904 m².

- Ans
- ☒ 1. 192 m
 - ☐ 2. 165 m
 - ☐ 3. 186 m
 - ☐ 4. 174 m

Q.3 Find the simple interest (in ₹) on ₹3,000 as a sum borrowed at 8% per year rate of interest for 6 years.

- Ans
- ☒ 1. 1,440
 - ☐ 2. 1,480
 - ☐ 3. 1,380
 - ☐ 4. 1,400

Q.4 The selling price of 25 books is equal to the cost price of 37 books. Find the loss or gain percentage.

- Ans**
- ☐ 1. 48% loss
 - ☐ 2. $\frac{100}{12}\%$ loss
 - ☐ 3. $\frac{100}{12}\%$ gain
 - ☒ 4. 48% gain

Q.5 A number when increased by 80% gives 2880. The number is:

- Ans**
- ☒ 1. 1600
 - ☐ 2. 800
 - ☐ 3. 3200
 - ☐ 4. 4800

Q.6 The sum of five numbers is 655. The average of the first two numbers is 80 and the third number is 105. Find the average of the remaining two numbers.

- Ans**
- ☐ 1. 185
 - ☐ 2. 196
 - ☐ 3. 186
 - ☒ 4. 195

Q.7 David bought some sharpeners at the rate of ₹150 a dozen. He sold them for ₹43 each. His profit percentage is ____%.

- Ans**
- ☐ 1. 242
 - ☒ 2. 244
 - ☐ 3. 248
 - ☐ 4. 246

Q.8 Simplify: $x(3x - 8) + 3(x^2 - 5) + 11$

- Ans**
- ☐ 1. $-6x^2 - 8x - 4$
 - ☐ 2. $6x^2 - 8x + 4$
 - ☐ 3. $-6x^2 - 8x + 4$
 - ☒ 4. $6x^2 - 8x - 4$

Q.9 Two times the present age of P exceeds the present age of Q by 15 years. After 9 years, twice Q's age will be 14 years less than twice P's age at that time. What is the present age (in years) of Q?

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

Q.10 Which of the following ratios is the greatest?

- Ans**
- ☐ 1. 48 : 90
 - ☒ 2. 46 : 51
 - ☐ 3. 22 : 54
 - ☐ 4. 42 : 68

Q.11	Anshuman and Kunal together invested ₹70,400 in a business. At the end of the year, out of a total profit of ₹12,000, Kunal's share was ₹1,800. What was the difference between their investments?
Ans	<div> <div>✗</div> <div>1. ₹48,614</div> </div> <div> <div>✗</div> <div>2. ₹50,554</div> </div> <div> <div>✓</div> <div>3. ₹49,280</div> </div> <div> <div>✗</div> <div>4. ₹47,329</div> </div>
Q.12	The LCM of the numbers 2.9 and 0.031 is:
Ans	<div> <div>✗</div> <div>1. 899</div> </div> <div> <div>✗</div> <div>2. 8.99</div> </div> <div> <div>✗</div> <div>3. 0.899</div> </div> <div> <div>✓</div> <div>4. 89.9</div> </div>
Q.13	The number of prime numbers lying between 397 and 407, both included, is:
Ans	<div> <div>✗</div> <div>1. 1</div> </div> <div> <div>✗</div> <div>2. 4</div> </div> <div> <div>✗</div> <div>3. 6</div> </div> <div> <div>✓</div> <div>4. 2</div> </div>
Q.14	In an election between two candidates 96 % of the registered voters cast their vote and 10 % of the votes polled were found invalid. Winning candidate got 57 % of the valid votes and won the election by a margin of 378 votes. How many voters were registered?
Ans	<div> <div>✗</div> <div>1. 3123</div> </div> <div> <div>✗</div> <div>2. 3122</div> </div> <div> <div>✗</div> <div>3. 21872</div> </div> <div> <div>✓</div> <div>4. 3125</div> </div>
Q.15	A piece of furniture is marked at 35% above its cost price. The shopkeeper gives a discount of 18% on the marked price and still earns ₹1,498 profit. What is the cost price of the furniture?
Ans	<div> <div>✗</div> <div>1. ₹16,000</div> </div> <div> <div>✗</div> <div>2. ₹12,000</div> </div> <div> <div>✓</div> <div>3. ₹14,000</div> </div> <div> <div>✗</div> <div>4. ₹15,000</div> </div>
Q.16	<p>The simple interest on a certain sum for $8\frac{1}{2}$ years at the rate of 3.2% per annum is ₹2,550.</p> <p>What will be the amount payable on the same sum at the rate of 9.6% per annum simple interest in $5\frac{4}{5}$ years?</p>
Ans	<div> <div>✗</div> <div>1. ₹14,613</div> </div> <div> <div>✗</div> <div>2. ₹14,609</div> </div> <div> <div>✗</div> <div>3. ₹14,583</div> </div> <div> <div>✓</div> <div>4. ₹14,595</div> </div>
Q.17	Evaluate 24^2 .
Ans	<div> <div>✓</div> <div>1. 576</div> </div> <div> <div>✗</div> <div>2. 546</div> </div> <div> <div>✗</div> <div>3. 626</div> </div> <div> <div>✗</div> <div>4. 536</div> </div>

Q.18 Ishaan and Meghna have to travel from Delhi to Kanpur in their respective cars. Ishaan is driving at 147 km/hr while Meghna is driving at 42 km/hr. Find the time taken by Meghna to reach Kanpur if Ishaan takes 8 hours.

- Ans**
- ☐ 1. 32 hours
 - ☐ 2. 19 hours
 - ☐ 3. 33 hours
 - ☒ 4. 28 hours

Q.19 The marked price of a vehicle is ₹6,48,200. It is sold after allowing three successive discounts of 6%, 5% and 4%. Find its selling price. (Rounded off to nearest rupee)

- Ans**
- ☒ 1. ₹5,55,689
 - ☐ 2. ₹5,70,650
 - ☐ 3. ₹5,60,789
 - ☐ 4. ₹5,48,600

Q.20 The exterior angle of a regular polygon is one-seventh of its interior angle. How many sides does the polygon have?

- Ans**
- ☐ 1. 18
 - ☐ 2. 24
 - ☐ 3. 12
 - ☒ 4. 16

Q.21 The product of two positive numbers is 2645. If the first number is five times the second number, then the sum of the two numbers is:

- Ans**
- ☒ 1. 138
 - ☐ 2. 149
 - ☐ 3. 146
 - ☐ 4. 155

Q.22 The average runs scored by a batsman in 23 matches is 43. In the next 10 matches, the batsman scored an average of 15 runs. Find his average runs scored (rounded off to two decimal places) in all the 33 matches.

- Ans**
- ☐ 1. 33.52
 - ☐ 2. 35.52
 - ☒ 3. 34.52
 - ☐ 4. 36.52

Q.23 The number 938315 is divisible by which of the following?

- Ans**
- ☐ 1. 12
 - ☐ 2. 13
 - ☒ 3. 5
 - ☐ 4. 9

Q.24 An amount of ₹785 is divided among three persons in the ratio of 19 : 3 : 18. The difference between the largest and the smallest shares (in ₹) in the distribution is:

- Ans**
- ☐ 1. 387
 - ☐ 2. 315
 - ☒ 3. 314
 - ☐ 4. 369

Q.25 Aarohi has to reach Lucknow which is 907 km away in 14 hours. His starting speed for 5 hours was 32 km/hr. For the next 81 km his speed was 27 km/hr. By what speed he must travel now so as to reach Lucknow in the decided time of 14 hours?

- Ans
- ☒ 1. 108 km/hr
 - ☒ 2. 117 km/hr
 - ☒ 3. 107 km/hr
 - ☒ 4. 111 km/hr

Q.26 A can do a work in 11 days and B can do the same work in 24 days. If they work on it together for 2 days, then what fraction of the work is left?

- Ans
- ☒ 1. $\frac{99}{132}$
 - ☒ 2. $\frac{107}{132}$
 - ☒ 3. $\frac{97}{132}$
 - ☒ 4. $\frac{103}{132}$

Q.27 Find the circumference (in m) of the largest circle that can be drawn completely inside a rectangle with sides 196 m and 271 m.

(Take $\pi = \frac{22}{7}$.)

- Ans
- ☒ 1. 613
 - ☒ 2. 616
 - ☒ 3. 608
 - ☒ 4. 614

Q.28 The value of $\sqrt{400} + \sqrt{0.0121} - \sqrt{7.84}$ is ____.

- Ans
- ☒ 1. 17.31
 - ☒ 2. 4.24
 - ☒ 3. 2.92
 - ☒ 4. 15.32

Q.29 Anjani can do a certain piece of work in 12 days. Anjani and Khushbu can together do the same work in 9 days, and Anjani, Khushbu and Sushmita can do the same work together in 8 days. In how many days can Anjani and Sushmita do the same work together?

- Ans
- ☒ 1. $\frac{72}{7}$
 - ☒ 2. $\frac{70}{7}$
 - ☒ 3. $\frac{80}{8}$
 - ☒ 4. $\frac{82}{9}$

Q.30 If $6x = \operatorname{cosec} \theta$ and $\frac{6}{x} = \cot \theta$, then find the value of $18\left(x^2 - \frac{1}{x^2}\right)$.

- Ans
- ☒ 1. $\frac{\sqrt{3}}{2}$
 - ☒ 2. $-\frac{1}{2}$
 - ☒ 3. $\frac{1}{2}$
 - ☒ 4. $\frac{1}{3}$

Section : General Intelligence and Reasoning

Q.1 In a certain code language, 'RACK' is coded as '3192' and 'JACK' is coded as '1326'. What is the code for 'J' in the given code language?

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

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 conclusion(s) logically follow(s) from the statements.

Statements:

No watch is a bow.
No bow is a tie.

Conclusions:

(I) No watch is a tie.
(II) No bow is a watch.

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

Q.3 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$17 \div 3 + 49 \times 7 - 13 = ?$$

- Ans
- ☒ 1. 41
 - ☒ 2. 57
 - ☒ 3. 45
 - ☒ 4. 43

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

691 692 690 691 689 690 688 ?

- Ans
- ☒ 1. 688
 - ☒ 2. 689
 - ☒ 3. 687
 - ☒ 4. 690

Q.5	<p>In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the pair in which the numbers are related in the same way as are the numbers of the following pairs.</p> <p>(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)</p> <p>25, 100 21, 84</p>
Ans	<div><div><div>✖</div><div>1. 28, 102</div></div><div><div>✖</div><div>2. 40, 180</div></div><div><div>✔</div><div>3. 32, 128</div></div><div><div>✖</div><div>4. 35, 120</div></div></div>
Q.6	<p>In a certain code language, A \$ B means 'A is the daughter of B' A + B means 'A is the brother of B' A @ B means 'A is the wife of B' A ÷ B means 'A is the father of B' Based on the above, how is E related to N if 'E \$ F @ G ÷ M + N'?</p>
Ans	<div><div><div>✖</div><div>1. Mother</div></div><div><div>✖</div><div>2. Daughter</div></div><div><div>✖</div><div>3. Wife</div></div><div><div>✔</div><div>4. Sister</div></div></div>
Q.7	<p>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.)</p>
Ans	<div><div><div>✖</div><div>1. NQL</div></div><div><div>✖</div><div>2. EHC</div></div><div><div>✖</div><div>3. UXS</div></div><div><div>✔</div><div>4. LKO</div></div></div>
Q.8	<p>Manoj starts from Point A and drives 9 km towards north. He then takes a right turn, drives 6 km, turns right and drives 3 km. He then takes a left turn and drives 5 km. He takes a final right turn, drives 6 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only unless specified.)</p>
Ans	<div><div><div>✖</div><div>1. 9 km towards south</div></div><div><div>✖</div><div>2. 9 km towards west</div></div><div><div>✖</div><div>3. 11 km towards east</div></div><div><div>✔</div><div>4. 11 km towards west</div></div></div>
Q.9	<p>In a certain code language, 'mud depth urn' is coded as 'qz bd aa' and 'rain dog mud' is coded as 'bd gl kn'. How is 'mud' coded in the given code language?</p>
Ans	<div><div><div>✖</div><div>1. qz</div></div><div><div>✖</div><div>2. aa</div></div><div><div>✖</div><div>3. gl</div></div><div><div>✔</div><div>4. bd</div></div></div>

Q.10 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 stars are rectangles.
All cones are rectangles.

Conclusions:
(I): Some stars are cones.
(II): Some rectangles are cones.

- 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.11 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. ZUX
- ✓

2. VQU
- ✗

3. XSV
- ✗

4. QLO

Q.12 Seven people A, B, C, D, E, F and G are sitting in a row, facing the north. No one sits to the right of G. Only four people sit between E and F. C sits fifth from the right end of the row. B sits to the immediate right of A but left of E. How many people sit to the right of D?

- Ans
- ✗

1. Four
- ✗

2. Three
- ✗

3. Two
- ✓

4. Five

Q.13 Six friends, B, C, D, E, F and N, are sitting in a straight line, facing north. No one sits to the right of D. Only two people sit between D and B. Only one person sits between E and C. F sits third to the right of E. How many people sit between N and F?

- Ans
- ✗

1. Two
- ✗

2. One
- ✗

3. Zero
- ✓

4. Three

Q.14 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

WTX SPT OLP KHL ?

- Ans
- ✗

1. GCH
- ✗

2. GDI
- ✗

3. GCI
- ✓

4. GDH

Q.15	<p>Refer to the following number and symbol series and answer the question that follows. All numbers are single-digit. Counting to be done from left to right.</p> <p>(Left) 6 @ 8 \$ 7 1 * 2 + £ 5 & 3 Ω 9 # % 4 (Right)</p> <p>How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another symbol?</p>
Ans	<div><div>✓ 1. 2</div><div>✗ 2. 4</div><div>✗ 3. 3</div><div>✗ 4. 1</div></div>
Q.16	<p>Pratik starts from Point A and drives 10 km towards the north. He then takes a right turn and drives 8 km, then turns right and drives 17 km. He then takes a right turn and drives 10 km. He takes a final right turn, drives 7 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.)</p>
Ans	<div><div>✗ 1. 2 km to the west</div><div>✓ 2. 2 km to the east</div><div>✗ 3. 3 km to the east</div><div>✗ 4. 3 km to the west</div></div>
Q.17	<p>What should come in place of the question mark (?) in the given series?</p> <p>14 26 49 81 124 ?</p>
Ans	<div><div>✗ 1. 178</div><div>✗ 2. 167</div><div>✗ 3. 187</div><div>✓ 4. 176</div></div>
Q.18	<p>Each of the digits in the number 1593486 is arranged in the ascending order from left to right. What will be the sum of the digits that are third from the left and third from the right in the new number thus formed?</p>
Ans	<div><div>✗ 1. 12</div><div>✓ 2. 10</div><div>✗ 3. 8</div><div>✗ 4. 9</div></div>
Q.19	<p>WFJU is related to YILX in a certain way based on the English alphabetical order. In the same way, ERRG is related to GUTJ. To which of the given options is KAXP related, following the same logic?</p>
Ans	<div><div>✗ 1. MZSD</div><div>✗ 2. MXZS</div><div>✓ 3. MDZS</div><div>✗ 4. MDSZ</div></div>
Q.20	<p>What should come in place of the question mark (?) in the given series?</p> <p>35 44 55 68 83 ?</p>
Ans	<div><div>✗ 1. 116</div><div>✗ 2. 122</div><div>✓ 3. 100</div><div>✗ 4. 128</div></div>

Q.21 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.

SOLD - OSLD - DOSL
BAKE - ABKE - EABK

- Ans
- ☐ 1. CURD - CRUD - DRUC
 - ☐ 2. CAME - ACME - AMEC
 - ☐ 3. MILK - IMLK - KILM
 - ☒ 4. NEAM - ENAM - MENA

Q.22 90 people are standing in a row facing north. Mr. Leu is 16th from the right end, while Mr. Sanga is 39th from the left end. How many people are there between Mr. Leu and Mr. Sanga?

- Ans
- ☐ 1. 37
 - ☐ 2. 34
 - ☐ 3. 32
 - ☒ 4. 35

Q.23 Each of the digits in the number 7812345 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. None
 - ☐ 2. Two
 - ☐ 3. One
 - ☐ 4. Three

Q.24 43 people are standing in a row facing north. Kumar is 29th from the left end while Mohana is 9th from the right end. How many people are there between Kumar and Mohana?

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

Q.25 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Note: All numbers are single digit numbers only.)

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

If all the number are dropped from the series, which of the following will be sixth from the right?

- Ans
- ☒ 1. +
 - ☐ 2. @
 - ☐ 3. *
 - ☐ 4. \$


Q.26 Seven boxes, A, B, C, D, M, N and O, are kept one over the other but not necessarily in the same order. Only three boxes are kept below D. Only two boxes are kept between D and O. Only A is kept above M. C is kept at some place below B and at some place above N. Which box is kept at the second position from the bottom?

- Ans
- ☐ 1. O
 - ☐ 2. A
 - ☐ 3. D
 - ☒ 4. N


Q.27 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?


18 B 3 D 112 A 16 C 6 = ?

- Ans

 1. 53

 2. 57

 3. 49

 4. 45

Q.28 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

CHR HMW MRB RWG ?

- Ans

 1. WLB

 2. WKL

 3. WLK

 4. WBL

Q.29 FHNR is related to MMSY in a certain way based on the English alphabetical order. In the same way, HBHT is related to OGMA. To which of the given options is CQWO related, following the same logic?

- Ans

 1. JVV B


 2. JVB V


 3. BVV J


 4. JBV V


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. SMHD

 2. BWQM

 3. QLFB

 4. GBVR