



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	04/09/2025
Test Time	4:30 PM - 6:00 PM
Subject	RRB NTPC Under Graduate CBT I

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : General Awareness

Q.1 Infrastructure development is essential for sustaining high growth and reducing regional disparities. Which of the following sectors is NOT typically included in the core infrastructure sectors in India?

- Ans ☒ 1. Cement
☒ 2. Tourism
☒ 3. Electricity
☒ 4. Iron and Steel

Q.2 In which of the following years was the town of Madrasapatnam, which later expanded and developed into modern-day Chennai, purchased by the East India Company (EIC) from local kings?

- Ans ☒ 1. 1639
☒ 2. 1690
☒ 3. 1620
☒ 4. 1658

Q.3 Which of the following services is jointly controlled by both the Union and State Governments?

- Ans ☒ 1. State Medical Service
☒ 2. Indian Economic Service
☒ 3. Central Engineering Service
☒ 4. Indian Administrative Service

Q.4 Which missile defence system, named Sudarshan Chakra, was used by India to intercept drones and missiles during Pakistan's attempted strikes in May 2025?

- Ans ☒ 1. Prithvi Air Defence
☒ 2. Akashteer
☒ 3. S-400 systems
☒ 4. Barak 8

Q.5 Which copper-based alloy is a preferred material for making standard resistors because of its high resistivity and low temperature coefficient?

- Ans ☒ 1. Alnico
☒ 2. Manganin
☒ 3. Tungsten
☒ 4. Brass

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Q.6 At the time of independence, India's economy was predominantly:

- Ans
- ☐ 1. service-based
 - ☒ 2. agricultural
 - ☐ 3. industrial
 - ☐ 4. trade-based

Q.7 Which pair of scientists first proposed the double-helix model for the structure of DNA?

- Ans
- ☐ 1. Darwin and Wallace
 - ☐ 2. Mendel and Avery
 - ☒ 3. Watson and Crick
 - ☐ 4. Franklin and Chargaff

Q.8 Which of the following is located in the west of the Deccan Plateau?

- Ans
- ☐ 1. Mahadeo hills
 - ☒ 2. Western Ghats
 - ☐ 3. Maikal range
 - ☐ 4. Eastern Ghats

Q.9 The World Meteorological Organization's (WMO) report, Global Annual to Decadal Climate Update (2025-2029), warns that the Earth's average temperature may rise by how much above pre-industrial levels?

- Ans
- ☐ 1. 2.5°C to 3.0°C
 - ☒ 2. 1.2°C to 1.9°C
 - ☐ 3. 0.8°C to 1.2°C
 - ☐ 4. 2.0°C to 2.5°C

Q.10 What was the main focus of India's Second Five Year Plan with respect to the economy?

- Ans
- ☒ 1. Heavy industrialisation
 - ☐ 2. Expansion of services
 - ☐ 3. Promotion of tourism
 - ☐ 4. Green revolution

Q.11 Which shortcut key combination allows you to quickly switch between open applications on a Windows computer?

- Ans
- ☒ 1. Alt + Tab
 - ☐ 2. Alt + F4
 - ☐ 3. Alt + Del
 - ☐ 4. Ctrl + Tab

Q.12 Who among the following is known for popularising Bharatanatyam on the global stage?

- Ans
- ☐ 1. Mallika Sarabhai
 - ☐ 2. Sonal Mansingh
 - ☐ 3. Hema Malini
 - ☒ 4. Rukmini Devi Arundale

Q.13 Which of the following statements about succession in the Gupta dynasty is true?

- Ans
- ☒ 1. Sons had to prove their eligibility before an assembly
 - ☐ 2. The eldest son was always crowned Yuvraj at priority
 - ☐ 3. Only the eldest son could become king
 - ☐ 4. The ruler always declared himself divine to get the throne

Q.14 Who piloted Vasco da Gama’s ship to Calicut during his first successful voyage to India in 1498?

- Ans**
- ☐ 1. Francisco Xavier
 - ☐ 2. Zamorin
 - ☒ 3. Abdul Majid
 - ☐ 4. De Almeida

Q.15 The indigenous inhabitants of India who were hostile, dark skinned and did not follow the Vedic system are referred to in Vedic texts as:

- Ans**
- ☒ 1. Dasyus
 - ☐ 2. Dasas
 - ☐ 3. Dravidas
 - ☐ 4. Aryans

Q.16 A small portion of the Singrauli Coalfield, which is located mainly in the Singrauli district of Madhya Pradesh, falls in which other State?

- Ans**
- ☐ 1. Chhattisgarh
 - ☐ 2. Jharkhand
 - ☒ 3. Uttar Pradesh
 - ☐ 4. Odisha

Q.17 Which of the following countries does NOT share a land border with India?

- Ans**
- ☐ 1. Afghanistan
 - ☐ 2. Bhutan
 - ☒ 3. Thailand
 - ☐ 4. Myanmar

Q.18 In which of the following national parks were eight African cheetahs translocated from Namibia in September 2022?

- Ans**
- ☐ 1. Banni grasslands
 - ☒ 2. Kuno National Park
 - ☐ 3. Mukundara Tiger Reserve
 - ☐ 4. Gandhi Sagar Wildlife Sanctuary

Q.19 Who launched the e-SeHAT application for accessible digital healthcare?

- Ans**
- ☐ 1. Bhupendra Patel
 - ☐ 2. Hemant Soren
 - ☐ 3. Pema Khandu
 - ☒ 4. Omar Abdullah

Q.20 A user wants to rename multiple files in a folder on Windows. What is the correct approach to do this efficiently?

- Ans**
- ☐ 1. Open each file and save it with a new name
 - ☒ 2. Select all files → Right-click → Rename → Type a base name
 - ☐ 3. Drag files to another folder and rename them there
 - ☐ 4. Press Ctrl + Alt + R to rename all files

Q.21 Which state hosted the 7th edition of the Khelo India Youth Games in 2025?

- Ans**
- ☒ 1. Bihar
 - ☐ 2. Karnataka
 - ☐ 3. Gujarat
 - ☐ 4. Maharashtra

Q.22 Who launched Prismix, an AI-driven media company?

- Ans
- ☐ 1. Salman Khan
 - ☐ 2. Amir Khan
 - ☒ 3. Ajay Devgn
 - ☐ 4. Shahrukh Khan

Q.23 Which organisation released the State of the World’s Children report, 2025?

- Ans
- ☐ 1. UNDP
 - ☐ 2. UNESCO
 - ☒ 3. UNICEF
 - ☐ 4. WHO

Q.24 Who was named Songwriter of the Year at the 2025 Ivor Novello Awards, held at Grosvenor House, London?

- Ans
- ☐ 1. Ed Sheeran
 - ☐ 2. Sam Smith
 - ☐ 3. RAYE
 - ☒ 4. Charli XCX

Q.25 Which social activist was awarded the Rammohan Acarya Sanman 2025 for service to rural tribal communities?

- Ans
- ☐ 1. Medha Patkar
 - ☐ 2. Aruna Roy
 - ☒ 3. Parbati Mahato
 - ☐ 4. Irom Sharmila

Q.26 According to Article 130 of the Constitution of India, the Supreme Court shall sit in Delhi or in such other place or places as may be appointed by:

- Ans
- ☐ 1. the President, in consultation with the Prime Minister
 - ☐ 2. the Parliament, through legislation
 - ☐ 3. the Union Cabinet, with advice from the Law Ministry
 - ☒ 4. the Chief Justice of India, with the approval of the President

Q.27 Manganese nodules are primarily found on:

- Ans
- ☐ 1. river deltas
 - ☒ 2. ocean beds
 - ☐ 3. glacier surfaces
 - ☐ 4. mountain slopes

Q.28 Who is regarded as the chief architect of India’s Green Revolution?

- Ans
- ☐ 1. Dr. Manmohan Singh
 - ☐ 2. PV Narasimha Rao
 - ☐ 3. Dr. Verghese Kurien
 - ☒ 4. MS Swaminathan

Q.29 Which Article establishes the office of the President?

- Ans
- ☐ 1. Article 75
 - ☐ 2. Article 53
 - ☐ 3. Article 74
 - ☒ 4. Article 52

Q.30 Which of the following Schedules deals with the administration and control of Scheduled Areas and Tribes?

- Ans
- ☐ 1. Ninth
 - ☐ 2. Sixth
 - ☒ 3. Fifth
 - ☐ 4. Seventh

Q.31 On May 20, 2025, the Supreme Court reinstated which requirement for candidates aspiring to become civil judges (junior division)?

- Ans
- ☐ 1. Mandatory Ph.D. in Law
 - ☒ 2. Three years of legal practice experience
 - ☐ 3. Minimum age of 30 years
 - ☐ 4. Passing a national-level judicial service exam

Q.32 September [2024] the Atacama Desert, where construction of the Extremely Large Telescope (ELT) is underway, is located in which country?

- Ans
- ☒ 1. Chile
 - ☐ 2. Argentina
 - ☐ 3. Peru
 - ☐ 4. Bolivia

Q.33 How is the vast distance between galaxies measured?

- Ans
- ☒ 1. In light years
 - ☐ 2. In seconds
 - ☐ 3. In miles
 - ☐ 4. In kilometres

Q.34 Which Indian leader emphasised a 'Nation First' ethos during a seminar in Lucknow in May 2025?

- Ans
- ☐ 1. Amit Shah
 - ☐ 2. Rajnath Singh
 - ☐ 3. Narendra Modi
 - ☒ 4. Yogi Adityanath

Q.35 Murlikant Rajaram Petkar of Maharashtra was awarded with Arjuna Award 2024 in which of the following fields?

- Ans
- ☐ 1. Shooting
 - ☒ 2. Para-Swimming
 - ☐ 3. Swimming
 - ☐ 4. Para-Shooting

Q.36 What does VLSRSAM stand for, which was successfully tested by the Indian Navy and Defence Research & Development Organisation (DRDO) in 2025?

- Ans
- ☒ 1. Vertical-Launch Short-Range Surface-to-Air Missile
 - ☐ 2. Variable Launch Strategic Recon Missile
 - ☐ 3. Very Large Surface Recon Air Missile
 - ☐ 4. Versatile Launch System for Rocket Missiles

Q.37 Which of the following gases is released when baking soda reacts with vinegar?

- Ans
- ☒ 1. Carbon dioxide
 - ☐ 2. Carbon monoxide
 - ☐ 3. Ammonia
 - ☐ 4. Hydrogen

Q.38 Which Amendment of the Indian Constitution added Article 39A (free legal aid)?

- Ans
- ☐ 1. 86th Amendment
 - ☐ 2. 44th Amendment
 - ☐ 3. 73rd Amendment
 - ☒ 4. 42nd Amendment

Q.39 Hool Diwas is celebrated on June 30 every year in India to commemorate the Santhal Hool (rebellion) of _____.

- Ans
- ☐ 1. 1840
 - ☒ 2. 1855
 - ☐ 3. 1845
 - ☐ 4. 1850

Q.40 The Warli painting tradition gained international recognition, largely due to the efforts of which of the following renowned painters?

- Ans
- ☒ 1. Jivya Soma Mashe
 - ☐ 2. MF Husain
 - ☐ 3. Amrita Sher-Gil
 - ☐ 4. SH Raza

Section : Mathematics

Q.1 Find the simple interest (in ₹) on ₹1,200 at an interest rate of 3% per month in 5 months.

- Ans
- ☐ 1. 15
 - ☐ 2. 35
 - ☐ 3. 30
 - ☒ 4. 180

Q.2 A shopkeeper offers a scheme discount of 'Buy goods worth ₹6000 and get ₹1000 worth of goods free'. What is the effective discount percentage (rounded off to two decimals)?

- Ans
- ☐ 1. 12%
 - ☐ 2. 16.67%
 - ☐ 3. 20%
 - ☒ 4. 14.29%

Q.3 Rupesh got an increase of 4% in his sales amount in the first year and 25% in the second year; also with this, his current sales are ₹1,35,200, what was his sales (in ₹) two years ago?

- Ans
- ☐ 1. ₹84,000
 - ☒ 2. ₹1,04,000
 - ☐ 3. ₹1,30,000
 - ☐ 4. ₹1,08,160

Q.4 A trader claims to sell spices at a profit of 68%, but also dishonestly uses a weight which is 12% 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. 91%
 - ☐ 2. 96%
 - ☐ 3. 88%
 - ☐ 4. 89%

Q.5

The value of $\frac{\sin^3 A - \cos^3 A}{1 + \sin A \cdot \cos A} + 2 \sin^2 54^\circ \sec^2 36^\circ$ is:

- Ans
- ☐ 1. $\sin A + \cos A - 2$
 - ☐ 2. $2(1 + \sin A \cdot \cos A)$
 - ☒ 3. $\sin A - \cos A + 2$
 - ☐ 4. $\sin A \cdot \cos A + 2$

Q.6

Shifa can do a certain piece of work in 20 days. Shifa and Afiya can together do the same work in 12 days, and Shifa, Afiya and Mariyam can do the same work together in 9 days. In how many days can Shifa and Mariyam do the same work together?

- Ans
- ☐ 1. $\frac{83}{8}$
 - ☐ 2. $\frac{85}{9}$
 - ☒ 3. $\frac{90}{7}$
 - ☐ 4. $\frac{80}{7}$

Q.7

Shahid and Mira have to travel from Delhi to Kanpur in their respective cars. Shahid is driving at 132 km/hr while Mira is driving at 60 km/hr. Find the time taken by Mira to reach Kanpur if Shahid takes 5 hours.

- Ans
- ☐ 1. 4 hours
 - ☐ 2. 8 hours
 - ☒ 3. 11 hours
 - ☐ 4. 1 hours

Q.8

6 years ago, the age of a father was 40 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

- Ans
- ☐ 1. 30
 - ☐ 2. 37
 - ☐ 3. 33
 - ☒ 4. 34

Q.9

An amount of ₹456 is divided among three persons in the ratio of 16 : 14 : 8. The difference between the largest and the smallest shares (in ₹) in the distribution is:

- Ans
- ☐ 1. 48
 - ☐ 2. 120
 - ☒ 3. 96
 - ☐ 4. 133

Q.10 A number when increased by 100% gives 2690. The number is:

- Ans
- ☐ 1. 2690
 - ☐ 2. 672.5
 - ☒ 3. 1345
 - ☐ 4. 4035

Q.11 A can lay railway track between two given stations in 19 days and B can do the same job in 15 days. With the help of C, they did the job in 3 days only. Then, C alone can do the job in

- Ans
- ☐ 1. $13\frac{41}{61}$ days
 - ☐ 2. $7\frac{41}{61}$ days
 - ☒ 3. $4\frac{41}{61}$ days
 - ☐ 4. $11\frac{41}{61}$ days

Q.12 A sum of money triples itself at a certain rate of compound interest in 3 years. In how many years will it amount to 27 times of itself?

- Ans
- ☒ 1. 9 years
 - ☐ 2. 3 years
 - ☐ 3. 17 years
 - ☐ 4. 11 years

Q.13 Ishan bought some pens at the rate of ₹150/dozen. He sold them for ₹17 each. His profit percentage is ____%.

- Ans
- ☐ 1. 38
 - ☒ 2. 36
 - ☐ 3. 40
 - ☐ 4. 34

Q.14 If the third proportional of 8 and 56 be x, then what is the value of x?

- Ans
- ☒ 1. 392
 - ☐ 2. 394
 - ☐ 3. 390
 - ☐ 4. 393

Q.15 The sum of five numbers is 655. The average of the first two numbers is 80, and the third number is 103. Find the average of the remaining two numbers.

- Ans
- ☐ 1. 184
 - ☒ 2. 196
 - ☐ 3. 197
 - ☐ 4. 183

Q.16 The value of $\sqrt{196} + \sqrt{0.0324} - \sqrt{5.76} =$

- Ans
- ☐ 1. 16.52
 - ☒ 2. 11.78
 - ☐ 3. 3.21
 - ☐ 4. 8.04

Q.17 The sum of two numbers is 81 and their L.C.M. is 420. What are the two numbers?

- Ans
- ☐ 1. 14, 67
 - ☐ 2. 26, 55
 - ☐ 3. 19, 62
 - ☒ 4. 21, 60

Q.18	M and N started a business. M invested ₹66,000 more than N for 5 months, while N invested for 7 months. M's share is ₹205 more than that of N, out of a total profit of ₹3,895. Find the capital contributed by M.
Ans	<div> <div>✗</div> <div>1. ₹1,84,910</div> </div> <div> <div>✗</div> <div>2. ₹1,84,849</div> </div> <div> <div>✓</div> <div>3. ₹1,84,800</div> </div> <div> <div>✗</div> <div>4. ₹1,84,602</div> </div>
Q.19	The sum of two numbers is 115 and their L.C.M. is 600. What are the two numbers?
Ans	<div> <div>✗</div> <div>1. 38, 77</div> </div> <div> <div>✗</div> <div>2. 45, 70</div> </div> <div> <div>✗</div> <div>3. 33, 82</div> </div> <div> <div>✓</div> <div>4. 40, 75</div> </div>
Q.20	<i>The value of $7^2 + \sqrt{10^2} - 2\sqrt{64} - 6$ is</i>
Ans	<div> <div>✗</div> <div>1. 38</div> </div> <div> <div>✗</div> <div>2. 29</div> </div> <div> <div>✓</div> <div>3. 37</div> </div> <div> <div>✗</div> <div>4. 46</div> </div>
Q.21	The product of two consecutive natural numbers is 30. The greater of the two numbers is:
Ans	<div> <div>✗</div> <div>1. 12</div> </div> <div> <div>✗</div> <div>2. 3</div> </div> <div> <div>✓</div> <div>3. 6</div> </div> <div> <div>✗</div> <div>4. 24</div> </div>
Q.22	Aryan has to reach Ahmedabad which is 977 km away in 11 hours. His starting speed for 4 hours was 39 km/hr. For the next 140 km his speed was 35 km/hr. By what speed he must travel now so as to reach Ahmedabad in the decided time of 11 hours?
Ans	<div> <div>✓</div> <div>1. 227 km/hr</div> </div> <div> <div>✗</div> <div>2. 231 km/hr</div> </div> <div> <div>✗</div> <div>3. 221 km/hr</div> </div> <div> <div>✗</div> <div>4. 229 km/hr</div> </div>
Q.23	Find the area of a triangle whose sides are of lengths 5 cm, 12 cm and 13 cm.
Ans	<div> <div>✗</div> <div>1. 32.5 cm²</div> </div> <div> <div>✗</div> <div>2. 78 cm²</div> </div> <div> <div>✓</div> <div>3. 30 cm²</div> </div> <div> <div>✗</div> <div>4. 60 cm²</div> </div>
Q.24	<i>Simplify: $3\left(\left(\frac{4}{3}\right)x^2 - 25x + 12\right) - 4(x^2 + 7x - 18)$.</i>
Ans	<div> <div>✗</div> <div>1. 103x + 108</div> </div> <div> <div>✗</div> <div>2. 103x - 108</div> </div> <div> <div>✗</div> <div>3. -103x - 108</div> </div> <div> <div>✓</div> <div>4. -103x + 108</div> </div>

Q.25 The LCM of the numbers 14.2 and 0.05 is:

- Ans
- ✗ 1. 142
 - ✗ 2. 1.42
 - ✗ 3. 0.142
 - ✓ 4. 14.2

Q.26 The marked price of a ceiling fan is ₹2,500. During off season, it is sold for ₹1,360. Find the discount percentage.

- Ans
- ✗ 1. 44.5%
 - ✗ 2. 45%
 - ✓ 3. 45.6%
 - ✗ 4. 42%

Q.27 The LCM of the numbers 10.8 and 0.06 is:

- Ans
- ✗ 1. 108
 - ✗ 2. 1.08
 - ✓ 3. 10.8
 - ✗ 4. 0.108

Q.28 The average runs scored by a batsman in 23 matches is 44. In the next 10 matches, the batsman scored an average of 14 runs. Find his average runs scored (rounded off to two decimal places) in all the 33 matches.

- Ans
- ✗ 1. 36.91
 - ✗ 2. 33.91
 - ✗ 3. 35.91
 - ✓ 4. 34.91

Q.29 The sum of all interior angles of a regular polygon is equal to twice the sum of all its exterior angles. The number of sides of the polygon is:

- Ans
- ✓ 1. 6
 - ✗ 2. 4
 - ✗ 3. 3
 - ✗ 4. 8

Q.30 If the radius of the base of a right circular cylinder is decreased by 19% and its height is increased by 122%, then what is the percentage increase (closest integer) in its volume?

- Ans
- ✗ 1. 33%
 - ✗ 2. 40%
 - ✗ 3. 50%
 - ✓ 4. 46%

Section : General Intelligence and Reasoning

Q.1 Sophie starts from Point A and drives 8 km towards south. She then takes a right turn, drives 6 km, turns left and drives 5 km. She then takes a left turn and drives 6 km. She takes a final right turn, drives 9 km and stops at Point P. How far (shortest distance) and towards which direction should she drive in order to reach Point A again? (All turns are 90° turns only unless specified.)

- Ans
- ✗ 1. 18 km towards south
 - ✗ 2. 22 km towards south
 - ✗ 3. 18 km towards east
 - ✓ 4. 22 km towards north

Q.2 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. SV-YD

✗ 2. BE-HM

✗ 3. DG-JO

✓ 4. FI-LO

Q.3 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.

(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.)

96, 12
184, 23

- Ans

✗ 1. 164, 20

✓ 2. 144, 18

✗ 3. 172, 21

✗ 4. 130, 16

Q.4 Seven people A, B, C, D, E, F and G are sitting in a row, facing the north. Only five people sit to the left of B. Only five people sit to the right of A. C sits to the immediate left of F but right of D. E does not sit to the right of D. How many people sit to the right of G?

- Ans

✗ 1. Five

✓ 2. Zero

✗ 3. Three

✗ 4. Four

Q.5 If 1 is added for each even digit and 1 is subtracted from each odd digit of the number 56218643, how many digits are repeated more than once in the new number thus formed?

- Ans

✗ 1. Two

✗ 2. None

✗ 3. Three

✓ 4. One

Q.6 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 fans are lights.
No fan is a bulb.

Conclusions:
(I) No light is an bulb.
(II) No bulb is a fan.

- Ans

✓ 1. Only conclusion II follows.

✗ 2. Neither conclusion I nor II follows.

✗ 3. Only conclusion I follows.

✗ 4. Both conclusions I and II follow.

Q.7 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

PHZ 3, SKC 7, VNF 15, YQI 31, BTL 63, ?

- Ans
- ✓ 1. EWO 127
 - ✗ 2. FWO 127
 - ✗ 3. EHO 127
 - ✗ 4. EWO 128

Q.8 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.

HARD - AHRD - DRAH
ITEM - TIEM - METI

- Ans
- ✗ 1. WENT - EWNT - TENW
 - ✓ 2. DUSK - UDSK - KSUD
 - ✗ 3. BITE - BTIE - ETIB
 - ✗ 4. LONG - OLNG - ONGL

Q.9 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 pins are bricks.
All pins are rulers.

Conclusions:
(I) Some bricks are rulers.
(II) All rulers are pins.

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

Q.10 Yusif starts from Point A and drives 9 km towards North. He then takes a left turn, drives 4 km, turns left and drives 11 km. He then takes a left turn and drives 5 km. He takes a final left 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. 1 km to the West
 - ✗ 2. 1 km to the East
 - ✗ 3. 2 km to the North
 - ✗ 4. 2 km to the South

Q.11 Refer to the following number, symbol series and answer the question. Counting to be done from left to right only.

(Left) 2 / \ < > 2 5 \$ % + 6 3 / 6 5 6 9 3 @ < & (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. Two
 - ✗ 2. Four
 - ✗ 3. One
 - ✓ 4. Three

Q.12	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete? GNU 11, DKR 21, AHO 41, XEL 81, UBI 161, ?
Ans	<div><div><div>✖</div><div>1. RYF 320</div></div><div><div>✖</div><div>2. ROF 321</div></div><div><div>✖</div><div>3. YYF 321</div></div><div><div>✔</div><div>4. RYF 321</div></div></div>
Q.13	In a row of 172 students facing north, Mr. Maxi is 21 st from the right end. If Mr. Han is 61 st to the left of Mr. Maxi, what is Mr. Han's position from the left end of the line?
Ans	<div><div><div>✔</div><div>1. 91st</div></div><div><div>✖</div><div>2. 92nd</div></div><div><div>✖</div><div>3. 90th</div></div><div><div>✖</div><div>4. 93rd</div></div></div>
Q.14	What should come in place of the question mark (?) in the given series? 48 69 94 123 156 ?
Ans	<div><div><div>✖</div><div>1. 223</div></div><div><div>✖</div><div>2. 213</div></div><div><div>✔</div><div>3. 193</div></div><div><div>✖</div><div>4. 203</div></div></div>
Q.15	Seven people D, E, F, G, H, I and O are sitting around a circular table, facing the centre of the table. Only one person sits between H and O when counted from the left of O. I sits third to the right of D. F sits third to the left of E. I sits to the immediate right of F. G is not an immediate neighbour of F. How many people sit between G and O when counted from the right of G?
Ans	<div><div><div>✖</div><div>1. One</div></div><div><div>✔</div><div>2. Three</div></div><div><div>✖</div><div>3. Two</div></div><div><div>✖</div><div>4. Four</div></div></div>
Q.16	If 1 is added to each even digit and 1 is subtracted from each odd digit of the number 56218643, how many digits are repeated more than once in the new number formed?
Ans	<div><div><div>✖</div><div>1. Two</div></div><div><div>✔</div><div>2. One</div></div><div><div>✖</div><div>3. Three</div></div><div><div>✖</div><div>4. None</div></div></div>
Q.17	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	<div><div><div>✖</div><div>1. QU-YE</div></div><div><div>✔</div><div>2. MI-QW</div></div><div><div>✖</div><div>3. GK-OU</div></div><div><div>✖</div><div>4. VZ-DJ</div></div></div>

Q.18 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

FCV : KZQ
ZQB : ENW

- Ans
1. MUV : QPZ
2. PWL : UTG
3. YNQ : BIT
4. FLH : KHM

Q.19 In a certain code language,
'A = B' means 'A is the brother of B',
'A ≠ B' means 'A is the father of B',
'A # B' means 'A is the wife of B' and
'A % B' means 'A is the sister of B'.

How is B related to S if 'B ≠ O % A = T # S'?

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

Q.20 Seven boxes I, J, K, L, M, N and P are kept one over the other but not necessarily in the same order. Only L is kept above M. Only P is kept between M and J. Only N is kept below K. How many boxes are kept between I and N?

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

Q.21 In a certain code language, 'youth shirt knife' is coded as 'nv to wh' and 'shirt son night' is coded as 'ch rb to'. How is 'shirt' coded in the given code language?

- Ans
1. nv
2. wh
3. to
4. ch

Q.22 All 119 students in a class are standing in a straight line facing north. Tika is 20th from the right end while Vishnu is 29th from the left end. How many people stand between Tika and Vishnu?

- Ans
1. 70
2. 71
3. 72
4. 69

Q.23 What should come in place of the question mark (?) in the given series?

92 83 74 ? 56 47 38

- Ans
1. 67
2. 62
3. 65
4. 69

Q.24 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. JNT

☐ 2. CGM

☐ 3. WAG

☒ 4. NRY

Q.25 What should come in place of the question mark (?) in the given series?

6 6 12 36 ? 720

- Ans

☐ 1. 108

☐ 2. 120

☐ 3. 172

☒ 4. 144

Q.26 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
EGO : FHP
WSD : XTE

- Ans

☐ 1. POI : QPK

☐ 2. TYC : UZE

☐ 3. JUG : KVI

☒ 4. CUT : DVU

Q.27 Each of the digits in the number 7841236 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. Three

☐ 3. One

☐ 4. Two

Q.28 In a certain code language, 'ALSO' is coded as '4367' and 'SLOT' is coded as '2347'. What is the code for 'T' in the given code language?

- Ans

☐ 1. 4

☐ 2. 7

☐ 3. 3

☒ 4. 2

Q.29 If 2 is added to each even digit and 2 is subtracted from each odd digit in the number 4792536, what will be the sum of all the even digits in the new number thus formed?

- Ans

☐ 1. 16

☒ 2. 18

☐ 3. 14

☐ 4. 12

Q.30 This question is based on the five, three-digit numbers given below.

(Left) 781 752 642 105 864 (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 of the given numbers is the third digit of a number a factor of the first digit as well as second digit of the same number?

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

