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	22/08/2025
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 When referring to the conventional rod puppet shows of West Bengal, what is the name used?

Ans ✅ 1. Putul Nautch

❌ 2. Kathputli

❌ 3. Yakshagana

❌ 4. Gombeyatta

Q.2 In May 2025, DRDO inaugurated a new research centre focusing on which advanced technology?

Ans ❌ 1. Artificial Intelligence

❌ 2. Robotics

✅ 3. Quantum Technology

❌ 4. Nanotechnology

Q.3 Which among the following two organisations signed an Memorandum of Understanding to establish an incubation centre promoting innovation in solar energy and green hydrogen in May 2025?

Ans ❌ 1. Ministry of New and Renewable Energy and Bharat Heavy Electricals Limited

❌ 2. Defence Research and Development Organisation and National Thermal Power Corporation

❌ 3. National Institution for Transforming India Aayog and Indian Space Research Organisation

✅ 4. National Solar Energy Federation of India and National Institute of Solar Energy

Q.4 Which DRDO-developed system, tested in 2025, is designed to detect and neutralise multiple types of underwater threats?

Ans ❌ 1. Varunastra

✅ 2. Maareech

❌ 3. MIGM

❌ 4. Takshak

Q.5 Bhaga and Chandra streams join at which place in Himachal Pradesh forming the river Chenab?

Ans ✅ 1. Tandi

❌ 2. Kullu

❌ 3. Rohtang Pass

❌ 4. Verinag Spring

Q.6 Which Fundamental Right guarantees Freedom of Speech, Assembly and Movement?

Ans ✗ 1. Right to Cultural Rights

✗ 2. Right to Equality

✓ 3. Right to Freedom

✗ 4. Right to Constitutional Remedies

Q.7 Which of the following is the correct method to create a new folder using the File menu in Windows 7?

Ans ✗ 1. Open Computer → Right-click drive → File → New → Folder

✓ 2. Open Computer → Open desired drive (e.g., D:) → Click on File → New → Folder

✗ 3. Start → File → Folder → New

✗ 4. Control Panel → File → Create → New Folder

Q.8 In which year was the first metro line in India, between Esplanade and Bhowanipur in Kolkata, inaugurated—marking the beginning of metro rail services in the country?

Ans ✗ 1. 1994

✗ 2. 1977

✗ 3. 1990

✓ 4. 1984

Q.9 How many significant figures are there in 2.308 cm?

Ans ✗ 1. 2

✗ 2. 3

✓ 3. 4

✗ 4. 5

Q.10 Which of the following is NOT a function under the Twelfth Schedule of the Constitution?

Ans ✗ 1. Public health

✓ 2. Foreign trade promotion

✗ 3. Urban poverty alleviation

✗ 4. Urban planning

Q.11 What does Ctrl + F help users to do?

Ans ✗ 1. Find a file on the desktop

✗ 2. Forward an email

✓ 3. Find text in the current document or webpage

✗ 4. Format the document

Q.12 Who was appointed as the Chief Election Commissioner of India in February 2025?

Ans ✗ 1. Sunil Arora

✗ 2. Sushil Chandra

✓ 3. Gyanesh Kumar

✗ 4. Rajiv Kumar

Q.13 Who among the following Delhi sultans accidentally died during a game of polo in the year 1210?

Ans ✓ 1. Qutbuddin Aibak

✗ 2. Jalaluddin Khilji

✗ 3. Firuz Shah Tughluq

✗ 4. Ibrahim Lodi

Q.14 Kartik Aaryan won the Best Performance in a Leading Role (Male) award at the 25th IIFA Awards held in March 2025 at Jaipur for his performance in which of the following films?

Ans
✗ 1. Chandu Champion

✗ 2. Shehzada

✗ 3. Satyaprem Ki Katha

✓ 4. Bhool Bhulaiyaa 3

Q.15 The February 2025 Technology Adoption Fund launched by IN-SPACe has earmarked _____ to support private space start-ups.

Ans
✗ 1. ₹100 crore

✗ 2. ₹1,000 crore

✓ 3. ₹500 crore

✗ 4. ₹250 crore

Q.16 This revolutionary freedom fighter co-founded the Hindustan Socialist Republican Association in 1928. Along with B K Dutt, he threw a bomb in the Central Legislative Assembly in 1929. He was tried and executed at the age of 23, along with revolutionaries Sukhdev Thapar and Shivaram Rajguru. The freedom fighter is:

Ans
✗ 1. Ramprasad Bismil

✓ 2. Bhagat Singh

✗ 3. Uddham Singh

✗ 4. Chandrasekhar Azad

Q.17 The Inter-State Council is constituted under which Article?

Ans
✓ 1. Article 263

✗ 2. Article 368

✗ 3. Article 280

✗ 4. Article 346

Q.18 Clean cooking fuel is essential for rural women's health and environmental sustainability. Which scheme provides LPG connections to women in BPL households?

Ans
✗ 1. Pradhan Mantri Awaas Yojana - Gramin

✓ 2. Pradhan Mantri Ujjwala Yojana

✗ 3. Pradhan Mantri Gram Sadak Yojana

✗ 4. Saansad Adarsh Gram Yojana

Q.19 In which city was the agreement signed in March 2025 to resolve the border dispute between Kyrgyzstan and Tajikistan?

Ans
✗ 1. Batken

✓ 2. Bishkek

✗ 3. Osh

✗ 4. Dushanbe

Q.20 If we derive an expression for velocity, its dimension should be _____.

Ans
✗ 1. $M^0L^1T^1$

✗ 2. $M L^{-1}T^{-2}$

✗ 3. $M^{-1}L^1T^{-1}$

✓ 4. $M^0L^1T^{-1}$

Q.21 Which of the following processes is absent in C_4 plants?

Ans ✗ 1. Transpiration

✓ 2. Photorespiration

✗ 3. Photosynthesis

✗ 4. Respiration

Q.22 Which valuable tree grows mainly in the western Himalayas and is used in construction?

Ans ✗ 1. Magnolia

✗ 2. Rhododendron

✗ 3. Cinchona

✓ 4. Deodar

Q.23 Which of the following is cited as evidence for a highly centralised administration in the Indus-Sarasvati civilisation?

Ans ✗ 1. Elaborate royal tombs

✗ 2. Absence of seals and standard script

✓ 3. Standardised weights and measures

✗ 4. Monumental palaces and temples

Q.24 Which non-constitutional body investigates corruption complaints against public servants?

Ans ✗ 1. Finance Commission

✓ 2. Lokpal

✗ 3. Election Commission

✗ 4. Union Public Service Commission

Q.25 Which Indian Army officer has written the book titled 'Ready, Relevant and Resurgent: A Blueprint for the Transformation of India's Military', which was unveiled by the Defence Minister Rajnath Singh in May 2025?

Ans ✓ 1. CDS General Anil Chauhan

✗ 2. Lieutenant General NS Raja Subramani

✗ 3. Lieutenant General Rajiv Ghai

✗ 4. General Upendra Dwivedi

Q.26 The brothers Sidhu and Kanhu were the leaders of which of the following tribal uprisings?

Ans ✗ 1. Koya revolts

✓ 2. Santhal Rebellion

✗ 3. Kol Mutiny

✗ 4. Ho uprising

Q.27 Which of the following is/are an ancient set of inscriptions, promoting moral values and governance principles and is considered one of the earliest written records in Indian history?

Ans ✗ 1. Arthashastra

✗ 2. Upanishads

✗ 3. Vedas

✓ 4. Edicts of Ashoka

Q.28 Which of the following human activities contributes the most to the increase in atmospheric carbon dioxide levels?

Ans ✗ 1. Construction of dams

✓ 2. Burning of fossil fuels

✗ 3. Use of fertilisers in agriculture

✗ 4. Afforestation

Q.29 Which of the following organisations developed the nanoporous multilayered polymeric membrane for high-pressure seawater desalination in May 2025?

Ans ✗ 1. Council of Scientific and Industrial Research (CSIR)

✗ 2. Department of Science and Technology (DST)

✓ 3. Defence Research and Development Organisation (DRDO)

✗ 4. Indian Space Research Organisation (ISRO)

Q.30 The Juvenile Justice (Care and Protection of Children) Act, 2015, allows juveniles aged 16-18 to be tried as adults in cases of:

Ans ✗ 1. theft

✗ 2. drug abuse

✗ 3. cybercrime

✓ 4. heinous crimes

Q.31 According to constitutional provisions, what is the maximum permissible size of a State Council of Ministers, including the Chief Minister?

Ans ✗ 1. 20% of the total strength of the Legislative Assembly

✗ 2. No specific limit is defined

✓ 3. 15% of the total strength of the Legislative Assembly

✗ 4. 10% of the total strength of the Legislative Assembly

Q.32 Which of the following is considered a major challenge to human development in India?

Ans ✗ 1. Rapid urbanisation

✗ 2. High foreign exchange reserves

✗ 3. Increasing digital infrastructure

✓ 4. Persistent regional disparities

Q.33 During the colonial period, the services sector accounted for only _____.

Ans ✗ 1. 22-29%

✗ 2. 5-10%

✓ 3. 15-20%

✗ 4. 25-32%

Q.34 In which of the following years was the first thermal power plant of the Calcutta Electric Supply Corporation Limited commissioned?

Ans ✗ 1. 1909

✗ 2. 1916

✗ 3. 1925

✓ 4. 1899

Q.35 Which among the following state lies in the south of the Great Indian Desert?

Ans ✗ 1. Madhya Pradesh

✓ 2. Gujarat

✗ 3. Uttar Pradesh

✗ 4. Haryana

Q.36 Where was Exercise Dharma Guardian, 2025, held?

Ans
✗ 1. Pune, India

✗ 2. New Delhi, India

✓ 3. East Fuji, Japan

✗ 4. Tokyo, Japan

Q.37 Which Indian airport secured a position among the top 10 hub airports in the Asia-Pacific and Middle East region in the 2024 ACI Hub Connectivity Rankings?

Ans
✗ 1. Chhatrapati Shivaji Maharaj International Airport

✗ 2. Chennai International Airport

✗ 3. Kempegowda International Airport

✓ 4. Indira Gandhi International Airport (IGIA)

Q.38 Who among the following won a maiden Italian Open title in May 2025 by defeating world No. 1 Jannik Sinner in Rome?

Ans
✗ 1. Daniil Medvedev

✗ 2. Novak Djokovic

✓ 3. Carlos Alcaraz

✗ 4. Rafael Nadal

Q.39 To harden the steel, which material is required in the steel industry?

Ans
✗ 1. Mica

✓ 2. Manganese

✗ 3. Limestone

✗ 4. Bauxite

Q.40 Lala Lajpat Rai, Indian revolutionary politician and author was also recognised by which of the following title?

Ans
✗ 1. Mahamana

✗ 2. Tilak of Punjab

✗ 3. Deshbandhu

✓ 4. Punjab Kesari

Section : **Mathematics**

Q.1 If the marked price of a book is ₹900, then find the selling price of the book after getting discount of 13%.

Ans
✗ 1. ₹891

✗ 2. ₹789

✓ 3. ₹783

✗ 4. ₹889

Q.2 The average of three numbers is 20. If two of them are 18 and 28, the third number is:

Ans
✗ 1. 15

✗ 2. 16

✓ 3. 14

✗ 4. 13

Q.3 An amount of ₹638 is divided among three persons in the ratio of 2 : 5 : 4. The difference between the largest and the smallest shares (in ₹) in the distribution is:

Ans
❌ 1. 76

❌ 2. 110

❌ 3. 157

✅ 4. 174

Q.4 2 men can complete a piece of work in 18 days, while 4 women can do it in 6 days. In how many days can 6 women and 9 men complete this work?

Ans
❌ 1. 1 day

✅ 2. 2 days

❌ 3. 3 days

❌ 4. 4 days

Q.5 If 2 times Mary's present age is 20 years more than 6 times Diya's present age, and 5 times Diya's present age is 6 years less than Mary's present age, then what is the difference (in years) between the ages of Mary and Diya?

Ans
❌ 1. 15

❌ 2. 18

❌ 3. 16

✅ 4. 14

Q.6 Anaya has to reach Hyderabad which is 574 km away in 18 hours. His starting speed for 11 hours was 36 km/hr. For the next 136 km his speed was 34 km/hr. By what speed he must travel now so as to reach Hyderabad in the decided time of 18 hours?

Ans
❌ 1. 8 km/hr

✅ 2. 14 km/hr

❌ 3. 9 km/hr

❌ 4. 20 km/hr

Q.7 The simple interest on a certain sum for $7\frac{1}{3}$ years at the rate of 4.5% per annum is ₹6,270.

What will be the amount payable on the same sum at the rate of 8.6% per annum simple interest in $11\frac{1}{2}$ years?

Ans
❌ 1. ₹37,783

✅ 2. ₹37,791

❌ 3. ₹37,784

❌ 4. ₹37,794

Q.8 Find the mean proportional between 18 and 32.

Ans
✅ 1. 24

❌ 2. 21

❌ 3. 26

❌ 4. 23

Q.9

If

$$x = a\, cosec A \sin B,$$
$$y = b\, cosec A \cos B,\, and$$
$$z = c \cot A,$$

then, what is the value of $\dfrac{x^2}{a^2} + \dfrac{y^2}{b^2} - \dfrac{z^2}{c^2}$?

Ans
- ✗ 1. -2
- ✗ 2. -1
- ✗ 3. 0
- ✓ 4. 1

Q.10 Find the simple interest (in ₹) on ₹1,200 at an interest rate of 4% per month for 2 months.

Ans
- ✓ 1. ₹96
- ✗ 2. ₹16
- ✗ 3. ₹28
- ✗ 4. ₹8

Q.11 The average runs scored by a batsman in 23 matches is 40. 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 33 matches.

Ans
- ✓ 1. 32.12
- ✗ 2. 33.12
- ✗ 3. 31.12
- ✗ 4. 34.12

Q.12 Pipe A can fill a tank in 16 hours, pipe B can fill the same tank in 26 hours and pipe C can fill the same tank in 16 hours. The time taken by them to fill the same tank if they operate together is::

Ans
- ✗ 1. $9\dfrac{2}{17}\,hours$
- ✗ 2. $2\dfrac{2}{17}\,hours$
- ✓ 3. $6\dfrac{2}{17}\,hours$
- ✗ 4. $3\dfrac{2}{17}\,hours$

Q.13 The value of $6^2 + \sqrt{3^2} - 7\sqrt{81} - 16$ is

Ans
- ✗ 1. -50
- ✓ 2. -40
- ✗ 3. -37
- ✗ 4. -32

Q.14 The HCF and the LCM of two numbers are 24 and 288, respectively. If one of the numbers is 72, find the other one.

Ans ✗ 1. 10

✗ 2. 20

✗ 3. 170

✓ 4. 96

Q.15 The LCM of $2^3 × 7^2 × 12$, $2^2 × 12^2 × 18$ and $7^3 × 12^2 × 18^2$ is:

Ans ✗ 1. $2^7 × 3^5 × 7^3$

✗ 2. $2^7 × 3^6 × 7^4$

✓ 3. $2^7 × 3^6 × 7^3$

✗ 4. $2^7 × 3^6 × 7^2$

Q.16

$$Simplify: 3\left(\left(\frac{7}{3}\right)x^2 - 26x + 13\right) - 7(x^2 + 9x - 11)$$

Ans ✗ 1. 141x − 116

✗ 2. −141x − 116

✗ 3. 141x + 116

✓ 4. −141x + 116

Q.17 A trader claims to sell vegetables at a profit of 52%, but also dishonestly uses a weight which is 8% 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. 61%

✗ 2. 63%

✗ 3. 69%

✓ 4. 65%

Q.18 A cylindrical rod has an outer curved surface area of 1100 cm². If the length of the rod is 29 cm, then the outer radius (in cm) of the rod, correct to two places of decimal, is:

$$\left(Take\ π = \frac{22}{7}\right)$$

Ans ✗ 1. 5.53

✗ 2. 4.72

✓ 3. 6.03

✗ 4. 8.17

Q.19 Simplify $13 × (3 × 4^2) ÷ 9 + 59 - 75$

Ans ✗ 1. $\dfrac{157}{3}$

✗ 2. $\dfrac{160}{9}$

✓ 3. $\dfrac{160}{3}$

✗ 4. $\dfrac{157}{9}$

Q.20 If the length, breadth and height of a room are 10.5 m, 8.5 m and 11 m, respectively, then what is the area (in m²) of the four walls of the room?

Ans ✗ 1. 414

✔ 2. 418

✗ 3. 416

✗ 4. 412

Q.21 If the measure of each interior angle of a regular polygon is 140°, then the number of its diagonals will be:

Ans ✗ 1. 25

✗ 2. 16

✔ 3. 27

✗ 4. 20

Q.22 Ritik and Sanjay together invested ₹77,600 in a business. At the end of the year, out of a total profit of ₹19,000, Sanjay's share was ₹7,600. What was the difference between their investments?

Ans ✗ 1. ₹14,343

✔ 2. ₹15,520

✗ 3. ₹15,928

✗ 4. ₹16,401

Q.23 In an election between two candidates, 96% of the registered voters cast their vote and 15% of the votes polled were found invalid. The winning candidate got 80% of the valid votes and won the election by a margin of 1224 votes. How many voters were registered?

Ans ✗ 1. 2503

✗ 2. 2501

✔ 3. 2500

✗ 4. 2502

Q.24 Which of the following numbers is divisible by 24?

Ans ✗ 1. 73,40,390

✗ 2. 68,30,908

✔ 3. 71,32,968

✗ 4. 79,91,987

Q.25 Pallavi bought a toy for ₹322, decorated it at a cost of ₹6 and sold the toy for ₹398. Find the loss or profit percentage.

Ans ✗ 1. $\dfrac{885}{41}\% \, loss$

✗ 2. $\dfrac{875}{41}\% \, loss$

✗ 3. $875 \, \% \, profit$

✔ 4. $\dfrac{875}{41}\% \, profit$

Q.26 If the 6-digit number N73M10 is divisible by 11, then which of the options below can give a possible correct relation between M and N?

Ans ✗ 1. M + N = 3

✓ 2. M − N = −3

✗ 3. M = N

✗ 4. M − N = 1

Q.27 A number when increased by 100% gives 2730. The number is:

Ans ✗ 1. 2730

✗ 2. 4095

✓ 3. 1365

✗ 4. 682.5

Q.28 Ritesh and Gauri have to travel from Delhi to Kanpur in their respective cars. Ritesh is driving at 150 km/hr while Gauri is driving at 60 km/hr. Find the time taken by Gauri to reach Kanpur if Ritesh takes 8 hours.

Ans ✓ 1. 20 hours

✗ 2. 17 hours

✗ 3. 14 hours

✗ 4. 30 hours

Q.29 A shopkeeper offers a scheme discount of 20% and an additional 5% discount if payment is made in cash. What is the total discount percentage on ₹1,000?

Ans ✗ 1. 23%

✗ 2. 26%

✓ 3. 24%

✗ 4. 25%

Q.30 The cost of 19 pens and 13 pencils is ₹254. If the cost of a pen decreases by ₹6 and the cost of a pencil increases by ₹9, then the cost of 14 pens and 2 pencils is ₹106. What is the original cost of 12 pens and 15 pencils?

Ans ✗ 1. ₹171

✗ 2. ₹173

✓ 3. ₹174

✗ 4. ₹175

Section : General Intelligence and Reasoning

Q.1 Seven people, I, J, K, L, U, V and W are sitting in a row, facing north.
Only three people sit to the left of V. Only I sits to the right of U. Only three people sit between U and W. J sits at some place to the left of K but at some place to the right of L.
How many people sit between L and K?

Ans ✗ 1. One

✓ 2. Three

✗ 3. Two

✗ 4. Four

Q.2 MKOJ is related to SQUP in a certain way based on the English alphabetical order. In the same way, KIMH is related to QOSN. To which of the following is HFJE related, following the same logic?

Ans ✗ 1. LNKP

✓ 2. NLPK

✗ 3. LNPK

✗ 4. NLKP

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

$32 + 4 × 2 − 6 ÷ 9 = ?$

Ans ✔ 1. 84

✘ 2. 81

✘ 3. 83

✘ 4. 82

Q.4 In a certain code language, 'always on time' is written as 'aj tj tr' and 'time is precious' is coded as 'lo tr mo'. How is 'time' coded in the given language?

Ans ✘ 1. lo

✔ 2. tr

✘ 3. mo

✘ 4. aj

Q.5 If 1 is subtracted from each odd digit of the number 86071452 and then the digits are arranged in ascending order, find the sum of the digits, which are repeated more than once in the new number formed.

Ans ✔ 1. 10

✘ 2. 11

✘ 3. 13

✘ 4. 8

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

$33 , 34 , 36 , 40 , 48 , ?$

Ans ✘ 1. 65

✔ 2. 64

✘ 3. 56

✘ 4. 45

Q.7 In a certain code language, 'music is therapy' is written as 'ak bj jo' and 'stop the music' is coded as 'tu mt jo'. How is 'music' coded in the given language?

Ans ✘ 1. mt

✘ 2. ak

✘ 3. tu

✔ 4. jo

Q.8 What should come in place of the question mark (?) in the given series?

4 12 28 52 84 ?

Ans ✘ 1. 125

✔ 2. 124

✘ 3. 130

✘ 4. 120

Q.9 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

DKS ELT FMU GNV ?

Ans ✘ 1. ROX

✘ 2. ROW

✔ 3. HOW

✘ 4. HOX

Q.10 This question is based on the five, three-digit numbers given below.

(Left) 256 987 325 489 723 (Right)

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

What will be the resultant if the second digit of the highest number is added to the third digit of the lowest number?

Ans
  ✗ 1. 16

  ✗ 2. 10

  ✓ 3. 14

  ✗ 4. 12

Q.11 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. FH-KD

  ✓ 2. MO-RL

  ✗ 3. IK-NG

  ✗ 4. CE-HA

Q.12 Seven people, B, C, D, E, F, G and L, are sitting around a circular table facing the centre of the table. Only three people sit between B and F when counted from the left of B. Only three people sit between D and E when counted from the right of E. G sits to the immediate right of D. C is an immediate neighbour of E as well as F. Who sits to the second to the left of L?

Ans
  ✗ 1. F

  ✗ 2. E

  ✓ 3. C

  ✗ 4. B

Q.13 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3851764, what will be the sum of the digits that are second from the left and second from the right?

Ans
  ✗ 1. 12

  ✗ 2. 6

  ✓ 3. 10

  ✗ 4. 8

Q.14 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. OQ -TV

  ✗ 2. VX-AC

  ✓ 3. GI-LM

  ✗ 4. KM-PR

Q.15 In a row of 163 students facing north, Mr. Maxi is 89th from the left end. If Mr. Han is 2nd to the right of Mr. Maxi, what is Mr. Han's position from the right end of the line?

Ans
  ✗ 1. 72nd

  ✗ 2. 75th

  ✓ 3. 73rd

  ✗ 4. 74th

Q.16 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:
Some trees are plants.
Some plants are graphs.

Conclusions:
(I): Some trees are graphs.
(II): All graphs are plants.

Ans ✔ 1. Neither conclusion (I) nor (II) follows.

✘ 2. Only conclusion (II) follows.

✘ 3. Only conclusion (I) follows.

✘ 4. Both conclusions (I) and (II) follow.

Q.17 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.

DIMS - SIDM - IMDS
COLT - TOCL - OLCT

Ans ✘ 1. GUYS - SUGY - YUGS

✔ 2. FROG - GRFO - ROFG

✘ 3. TIME - ITME - EIMT

✘ 4. FOUR - FUOR - RUOF

Q.18 Seven boxes, A, B, C, D, K, L and O, are kept one over the other, but not necessarily in the same order. Only D is kept above C. Only L is kept between C and B. Only A is kept below K. How many boxes are kept between O and A?

Ans ✘ 1. Three

✘ 2. Two

✔ 3. One

✘ 4. Four

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

KFU-15 IIQ-22 ? EOI-42 CRE-55

Ans ✘ 1. HGL-31

✘ 2. KJG-32

✘ 3. KLJ-30

✔ 4. GLM-31

Q.20 Alexander starts from Point A and drives 12 km towards the south. He then takes a left turn and drives 4 km, then turns left and drives 17 km. He then takes a left turn and drives 9 km. He takes a final left turn, drives 5 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. 5 km to the east

✘ 2. 3 km to the east

✘ 3. 2 km to the east

✘ 4. 4 km to the east

Q.21 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. JM-QG

❌ 2. EH-LC

❌ 3. LO-SJ

❌ 4. OR-VM

Q.22 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
FEI−HGK
YXB−AZD

Ans ✅ 1. WVZ−YXB

❌ 2. SRV−TTW

❌ 3. SQT−UTX

❌ 4. SQT−TSW

Q.23 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.)

(46, 41, 26)
(77, 72, 57)

Ans ❌ 1. (59, 54, 34)

❌ 2. (93, 88, 83)

❌ 3. (81, 71, 61)

✅ 4. (62, 57, 42)

Q.24 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) # 3 % 7 $ 5 * & 4 β 9 Ω 4 9 μ 8 @ $ 1 π 3 (Right)

How many such symbols are there that are immediately preceded by a number and also immediately followed by another number?

Ans ❌ 1. Three

❌ 2. Five

❌ 3. One

✅ 4. Six

Q.25 Geeta starts from Point P and drives 6 km towards south. Then, she takes a right turn, drives 8 km, turns right again and drives 10 km. She then takes a right turn and drives 12 km. Then, she takes a left turn and drives 2 km; she takes a left turn again and drives 4 km and stops at Point Q. How far (shortest distance) and towards which direction should she drive in order to reach Point P again? (All turns are 90-degree turns only, unless specified.)

Ans ❌ 1. 8 km towards south

❌ 2. 4 km towards north

❌ 3. 4 km towards south

✅ 4. 6 km towards south

Q.26 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 beds are pillows.
Some beds are curtains.

Conclusions:
(I) Some pillows are curtains.
(II) Some curtains are beds.

Ans ✗ 1. Neither conclusion I nor II follows.

✗ 2. Only conclusion II follows.

✗ 3. Only conclusion I follows.

✓ 4. Both conclusions I and II follow.

Q.27 What should come in place of the question mark (?) in the given series?

14 16 20 28 44 ?

Ans ✗ 1. 83

✓ 2. 76

✗ 3. 96

✗ 4. 63

Q.28 A is the brother of H. H is the father of R. R is the daughter of M. G is the father of M. How is A related to M?

Ans ✗ 1. Daughter's husband's brother

✗ 2. Husband's father

✓ 3. Husband's brother

✗ 4. Daughter's husband's father

Q.29 If 1 is subtracted from each even digit of the number 36719542, then what will be the product of digits that are repeated more than once in the new number formed?

Ans ✗ 1. 6

✗ 2. 5

✓ 3. 15

✗ 4. 3

Q.30 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Only four boxes are kept between A and D. Only F is kept above A. Only two boxes are kept between B and C. E is kept immediately above G. C is not kept immediately above E. How many boxes are kept above E?

Ans ✗ 1. Four

✗ 2. One

✓ 3. Three

✗ 4. Two