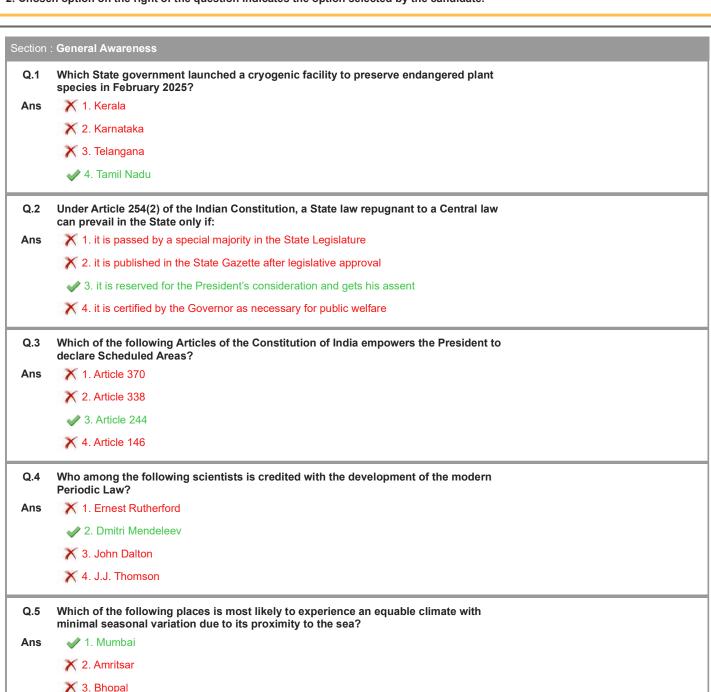| Test Date	03/09/2025
Test Time	4:30 PM - 6:00 PM
Subject	RRB NTPC Under Graduate CBT I

* 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 Which State government launched a cryogenic facility to preserve endangered plant species in February 2025?

Ans ✗ 1. Kerala

✗ 2. Karnataka

✗ 3. Telangana

✓ 4. Tamil Nadu

Q.2 Under Article 254(2) of the Indian Constitution, a State law repugnant to a Central law can prevail in the State only if:

Ans ✗ 1. it is passed by a special majority in the State Legislature

✗ 2. it is published in the State Gazette after legislative approval

✓ 3. it is reserved for the President's consideration and gets his assent

✗ 4. it is certified by the Governor as necessary for public welfare

Q.3 Which of the following Articles of the Constitution of India empowers the President to declare Scheduled Areas?

Ans ✗ 1. Article 370

✗ 2. Article 338

✓ 3. Article 244

✗ 4. Article 146

Q.4 Who among the following scientists is credited with the development of the modern Periodic Law?

Ans ✗ 1. Ernest Rutherford

✓ 2. Dmitri Mendeleev

✗ 3. John Dalton

✗ 4. J.J. Thomson

Q.5 Which of the following places is most likely to experience an equable climate with minimal seasonal variation due to its proximity to the sea?

Ans ✓ 1. Mumbai

✗ 2. Amritsar

✗ 3. Bhopal

✗ 4. Delhi

Q.6 Which tunnel was inaugurated by Prime Minister Narendra Modi in Jammu and Kashmir on 13 January 2025?

Ans ✗ 1. Banihal Qazigund tunnel

✓ 2. Sonamarg tunnel

✗ 3. Chenani-Nashri tunnel

✗ 4. Nandni tunnel

Q.7 Which Indian institute was officially notified as an 'Institution Deemed to be University' by the Union Ministry of Education?

Ans ✓ 1. Film and Television Institute of India (FTII), Pune

✗ 2. Indian Institute of Mass Communication (IIMC), New Delhi

✗ 3. K R Narayanan National Institute of Visual Science and Arts, Kerala

✗ 4. National School of Drama (NSD), Delhi

Q.8 Gender disparities significantly affect human development outcomes. Which of the following indicators is NOT part of the Gender Inequality Index (GII)?

Ans ✗ 1. Maternal mortality

✗ 2. Political representation

✓ 3. Food consumption

✗ 4. Labour force participation

Q.9 The Priest-King statue from Mohenjo-daro, a famous stone sculpture, is predominantly made of which of the following substances?

Ans ✗ 1. Terracotta

✓ 2. Steatite

✗ 3. Bronze

✗ 4. Limestone

Q.10 Which Indian non-profit, profiled by IEEE Spectrum (December 2024), built AI models to predict adverse TB outcomes?

Ans ✗ 1. Piramal Swasthya

✓ 2. Wadhwani AI

✗ 3. e-VIN

✗ 4. PATH India

Q.11 Under Article 5 of the Indian Constitution, which of the following is NOT required for a person to be considered a citizen at the commencement of the Constitution?

Ans ✓ 1. Holding an Indian passport

✗ 2. Having at least one parent born in India

✗ 3. Having domicile in the territory of India

✗ 4. Being born in India

Q.12 Which Constitutional Amendment removed the Right to Property from the list of Fundamental Rights in India?

Ans ✓ 1. 44th Amendment Act, 1978

✗ 2. 42nd Amendment Act, 1976

✗ 3. 52nd Amendment Act, 1985

✗ 4. 73rd Amendment Act, 1992

Q.13 Which of the following mountain ranges belongs to the Peninsular Plateau?

Ans ✗ 1. Shivalik range

✗ 2. Zanskar range

✓ 3. Ajanta range

✗ 4. Karakoram range

Q.14 As announced on 30 April 2025, what major decision did the Indian Cabinet take regarding the upcoming decennial census?

Ans ✗ 1. To conduct the first ever digital-only census

✗ 2. To postpone the census indefinitely

✓ 3. To include a caste-based enumeration in the next census

✗ 4. To eliminate caste data collection

Q.15 Which of the following energy sources remained the dominant contributor to India's renewable energy growth, accounting for 47% of the total installed renewable energy capacity in 2024?

Ans ✗ 1. Bio-Power

✓ 2. Solar Power

✗ 3. Wind Power

✗ 4. Small Hydro Power

Q.16 Which of these elements is NOT part of the standard Windows 7 desktop?

Ans ✗ 1. Start Button

✗ 2. Taskbar

✗ 3. Notification Area

✓ 4. Control Panel

Q.17 Which Union Territory of India is located in the Arabian Sea?

Ans ✗ 1. Andaman and Nicobar Islands

✗ 2. Chandigarh

✓ 3. Lakshadweep

✗ 4. Puducherry

Q.18 What was one of the key effects of globalisation on the Indian economy after 1991?

Ans ✗ 1. Reduction in foreign exchange reserves

✓ 2. Entry of foreign companies and capital

✗ 3. Closure of Indian banks

✗ 4. Decrease in exports

Q.19 Union Cabinet approved PM-Surya Ghar: Muft Bijli Yojana in 2024, to provide subsidy for the installation of rooftop solar in how many households across India?

Ans ✗ 1. Two crore

✗ 2. Four crore

✗ 3. Three crore

✓ 4. One crore

Q.20 Which of the following options is used to change the system settings in MS Windows?

Ans ✗ 1. Command Prompt

✓ 2. Control Panel

✗ 3. File Explorer

✗ 4. Task Manager

Q.21 Which country topped the World Press Freedom Index, 2025, released by Reporters Without Borders (RSF)?

Ans
- ❌ 1. Finland
- ✅ 2. Norway
- ❌ 3. Denmark
- ❌ 4. Sweden

Q.22 Lakhwar Multipurpose Project belongs to which state?

Ans
- ❌ 1. Uttar Pradesh
- ❌ 2. Rajasthan
- ❌ 3. Madhya Pradesh
- ✅ 4. Uttarakhand

Q.23 Which of the following is an example of globalisation in India post-1991?

Ans
- ❌ 1. Nationalisation of major private banks
- ❌ 2. Licensing requirement for all businesses
- ✅ 3. Entry of multinational companies like Amazon and Apple
- ❌ 4. Closure of ports

Q.24 Which Act ended the monopoly of the East India Company over trade with India?

Ans
- ❌ 1. Pitt's India Act of 1784
- ❌ 2. Regulating Act of 1773
- ❌ 3. Charter Act of 1833
- ✅ 4. Charter Act of 1813

Q.25 Who hosted the 6th BIMTEC Summit in April 2025?

Ans
- ❌ 1. Bhutan
- ✅ 2. Thailand
- ❌ 3. Indonesia
- ❌ 4. Sri Lanka

Q.26 What is self-induction?

Ans
- ❌ 1. Induction of EMF in one coil due to a current in a nearby coil
- ❌ 2. Induction of EMF in a coil due to motion in a magnetic field
- ✅ 3. Induction of EMF in a coil due to a change in its own current
- ❌ 4. Generation of current in a coil due to temperature changes

Q.27 Who among the following led the official media briefing on India's Operation Sindoor in May 2025?

Ans
- ❌ 1. Foreign Secretary Vikram Misri and Defence Minister Rajnath Singh
- ❌ 2. Lt Gen Rajiv Ghai and Commodore Raghu R Nair
- ❌ 3. General Anil Chauhan and Air Marshal AK Bharti
- ✅ 4. Colonel Sofiya Qureshi and Wing Commander Vyomika Singh

Q.28 Which method is employed in the refining of petroleum to separate crude oil from high boiling point fractions like lubricating oils?

Ans
- ❌ 1. Vacuum filtration
- ❌ 2. Differential extraction
- ❌ 3. Rotary sublimation
- ✅ 4. Fractional distillation

Q.29 Which of the four Vedas is traditionally paired with the Upaveda known as Gandharvaveda?

Ans
- ❌ 1. Yajurveda
- ❌ 2. Atharvaveda
- ✅ 3. Samaveda
- ❌ 4. Rigveda

Q.30 At the 8th Indian Ocean Conference held in Muscat on 16-17 February 2025, which theme was unveiled to enhance maritime partnerships among member nations?

Ans
- ❌ 1. Bridging Oceans: A New Era
- ❌ 2. Navigating New Waters
- ✅ 3. Voyage to New Horizons of Maritime Partnership
- ❌ 4. Strengthening Maritime Alliances

Q.31 Researchers from which Indian institute developed an advanced agricultural robot designed to detect plant diseases and apply pesticides precisely?

Ans
- ❌ 1. Indian Institute of Technology Delhi (IIT-D)
- ❌ 2. Indian Institute of Technology Bombay (IIT-B)
- ❌ 3. Indian Institute of Technology Madras (IIT-M)
- ✅ 4. Indian Institute of Technology Kharagpur (IIT-KGP)

Q.32 The Kherwar movement was led by which charismatic leader?

Ans
- ✅ 1. Bhagirath Manjhi
- ❌ 2. Birsa Munda
- ❌ 3. Sidhu Murmu
- ❌ 4. Tilka Manjhi

Q.33 Bori, which is considered to be the first Lower Palaeolithic site, is in which of the following states of India?

Ans
- ❌ 1. Gujarat
- ❌ 2. Arunachal Pradesh
- ❌ 3. Tamil Nadu
- ✅ 4. Maharashtra

Q.34 Who is the Director General of Sashastra Seema Bal (SSB) as of May 2025?

Ans
- ✅ 1. Amrit Mohan Prasad
- ❌ 2. Somit Joshi
- ❌ 3. Daljit Singh Chaudhary
- ❌ 4. Anupama Nilekar Chandra

Q.35 Where was the 6th summit of the Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) held on 4 April 2025?

Ans
- ❌ 1. New Delhi
- ❌ 2. Colombo
- ✅ 3. Bangkok
- ❌ 4. Dhaka

Q.36 During the Mauryan period, the village headman in North India was known by _____.

Ans
- ❌ 1. Gavunda
- ✅ 2. Gramika
- ❌ 3. Mununda
- ❌ 4. Pattakila

Q.37 Which of the following states hosted the 7th edition of the Khelo India Youth Games in May 2025 along with New Delhi?

Ans
✗ 1. Gujarat

✗ 2. Maharashtra

✗ 3. Karnataka

✓ 4. Bihar

Q.38 Employment generation became a focus in later Five-Year Plans. Which Five-Year Plan introduced the Integrated Rural Development Programme (IRDP)?

Ans
✗ 1. Seventh Plan

✗ 2. Fourth Plan

✗ 3. Fifth Plan

✓ 4. Sixth Plan

Q.39 What is the primary function of the Public Accounts Committee (PAC) of the Indian Parliament?

Ans
✓ 1. To review CAG audit reports

✗ 2. To evaluate government schemes

✗ 3. To recommend the Union Budget

✗ 4. To assist in the election of the Speaker

Q.40 During the 1857 Revolt, Indian sepoys declared which of the following as their symbolic leader?

Ans
✗ 1. Tantia Tope

✗ 2. Rani Lakshmibai

✗ 3. Nana Saheb

✓ 4. Bahadur Shah II

Section : Mathematics

Q.1 The number 726179 is divisible by which of the following?

Ans
✓ 1. 23

✗ 2. 29

✗ 3. 28

✗ 4. 20

Q.2 ABCD is a quadrilateral such that $\angle A = 47°$, $\angle B = 66°$, $\angle C = 133°$ and $\angle D = 114°$. What type of a quadrilateral is ABCD?

Ans
✗ 1. Trapezium

✗ 2. Rhombus

✓ 3. Cyclic quadrilateral

✗ 4. Parallelogram

Q.3 If the radius of a sphere is 24 cm, then its surface area is:

Ans
✗ 1. 2374 π cm^2

✗ 2. 2280 π cm^2

✓ 3. 2304 π cm^2

✗ 4. 2330 π cm^2

Q.4 If 3 times the mother's age is 29 years more than 5 times her daughter's age, and 2 times the daughter's age is 2 years less than the mother's age, then what is the difference (in years) between the ages of the mother and the daughter?

Ans ✔ 1. 25

✘ 2. 24

✘ 3. 29

✘ 4. 23

Q.5 The LCM of $3^3 \times 9^2 \times 13$, $3^2 \times 13^2 \times 18$ and $9^3 \times 13^2 \times 18^2$ is

Ans ✘ 1. $2^2 \times 3^{11} \times 13^2$

✔ 2. $2^2 \times 3^{10} \times 13^2$

✘ 3. $2^3 \times 3^{10} \times 13^2$

✘ 4. $2^2 \times 3^9 \times 13^2$

Q.6 Simplify $\dfrac{(x^2-9) \times (9x^2-1)}{\left(x-\frac{1}{3}\right) \times \left(1-\frac{x}{3}\right)} \times \dfrac{9}{\left(x+\frac{1}{3}\right) \times \left(1+\frac{x}{3}\right)}$.

Ans ✔ 1. −729

✘ 2. 729

✘ 3. −81

✘ 4. 81

Q.7 The H.C.F. and the L.C.M. of two numbers are 8 and 4200, respectively. If one of the numbers is 168, find the other one.

Ans ✘ 1. 100

✔ 2. 200

✘ 3. 300

✘ 4. 400

Q.8 A man driving a car at a speed of 48 km/hr crosses a bridge in 4.6 minutes. Find the length of the bridge.

Ans ✘ 1. 4.35 km

✘ 2. 3.92 km

✘ 3. 2.75 km

✔ 4. 3.68 km

Q.9 The product of two positive numbers is 2000. If the first number is five times the second number, then the sum of the two numbers is:

Ans ✔ 1. 120

✘ 2. 133

✘ 3. 121

✘ 4. 125

Q.10 Pipe P can fill $\dfrac{2}{7}$ part of a tank in 18 hours, and pipe Q can fill $\dfrac{5}{9}$ part of the same tank in 25 hours.

Both P and Q were kept open for 3 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. 25 hours

✔ 2. 42 hours

✘ 3. 38 hours

✘ 4. 53 hours

Q.11 The simple interest on a certain sum for $4\frac{2}{5}$ years at the rate of 7.6% per annum is ₹8,778.

What will be the amount payable on the same sum at the rate of 4.8% per annum simple interest in $8\frac{2}{7}$ years?

Ans
✗ 1. ₹36,699

✗ 2. ₹36,698

✔ 3. ₹36,690

✗ 4. ₹36,672

Q.12 ₹35,200 were divided among A, B and C, such that 8 times the share of A = 6 times the share of B = 3 times the share of C. Find the share of A.

Ans
✔ 1. ₹7,040

✗ 2. ₹7,220

✗ 3. ₹7,197

✗ 4. ₹6,872

Q.13 86 light bulbs were purchased for ₹86, and 14 light bulbs broke in transit. The trader sold the remaining light bulbs at ₹3.20 each. Find his profit.

Ans
✔ 1. ₹144.40

✗ 2. ₹141.30

✗ 3. ₹137.10

✗ 4. ₹141.10

Q.14 A trader claims to sell fruits at a profit of 22%, but also dishonestly uses a weight which is 4% 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. 24%

✗ 2. 28%

✔ 3. 27%

✗ 4. 25%

Q.15 The average weight of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 75 kg and 38 kg is:

Ans
✗ 1. 52.6 kg

✔ 2. 51.6 kg

✗ 3. 50.6 kg

✗ 4. 53.6 kg

Q.16 Find the surface area of a cube, whose each side measures 9 cm.

Ans
✗ 1. 364 cm^2

✗ 2. 324 cm^2

✔ 3. 486 cm^2

✗ 4. 729 cm^2

Q.17 In an election between two candidates, 82% of the registered voters cast their vote and 4% of the votes polled were found invalid. The winning candidate got 60% of the valid votes and won the election by a margin of 1968 votes. How many voters were registered?

Ans
✗ 1. 12502

✗ 2. 12501

✔ 3. 12500

✗ 4. 12497

Q.18 Find the simple interest (in ₹) on ₹1,200 at an interest rate of 4% per month for 5 months.

Ans
- ✗ 1. ₹20
- ✗ 2. ₹40
- ✗ 3. ₹120
- ✓ 4. ₹240

Q.19 The marked price of a wet grinder is ₹6,500. It was sold at two successive discounts of 5% and 4%. Find its selling price.

Ans
- ✗ 1. ₹5,630
- ✗ 2. ₹5,500
- ✓ 3. ₹5,928
- ✗ 4. ₹5,850

Q.20 A publisher gives 15% discount on the printed price of a book to booksellers. What does a book seller pay (in ₹) for a book whose printed price is ₹2,400?

Ans
- ✗ 1. 2,140
- ✗ 2. 2,420
- ✗ 3. 2,004
- ✓ 4. 2,040

Q.21 The number of prime numbers lying between 332 and 343, both included, is:

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

Q.22

$$The\ value\ of\ 2^2 + \sqrt{10^2} - 9\sqrt{16} - 17\ is$$

Ans
- ✓ 1. -39
- ✗ 2. -48
- ✗ 3. -36
- ✗ 4. -31

Q.23 A number, when increased by 60%, gives 3560. The number is:

Ans
- ✓ 1. 2225
- ✗ 2. 1112.5
- ✗ 3. 6675
- ✗ 4. 4450

Q.24 A can lay railway track between two given stations in 17 days and B can do the same job in 12 days. With the help of C, they did the job in 3 days only. Then, C alone can do the job in

Ans
- ✗ 1. $6\frac{3}{13}\ days$
- ✗ 2. $7\frac{3}{13}\ days$
- ✓ 3. $5\frac{3}{13}\ days$
- ✗ 4. $12\frac{3}{13}\ days$

Q.25 Find the mean proportional of 225 and 4.

Ans
✗ 1. 28

✗ 2. 27

✔ 3. 30

✗ 4. 32

Q.26 If $\sin\theta = \dfrac{p^2 - 1}{p^2 + 1}$, and θ is an acute angle, then find the value of $\cos\theta$.

Ans
✗ 1. $\dfrac{2p}{p^2 - 1}$

✗ 2. $\dfrac{p^2 + 1}{2p}$

✔ 3. $\dfrac{2p}{p^2 + 1}$

✗ 4. $\dfrac{1 + 2p}{p^2 - 1}$

Q.27 In covering a distance of 52 km, Anmol takes 6 hours more than Nikhil. If Anmol doubles his speed, then he would take 7 hours less than Nikhil. Anmol's speed is:

Ans
✗ 1. 4 km/hr

✗ 2. 6 km/hr

✔ 3. 2 km/hr

✗ 4. 7 km/hr

Q.28 The average weight of Salil, Mukund and Sachin is 45 kg. If the average weight of Salil and Mukund is 44 kg and that of Mukund and Sachin is 48 kg, then the weight of Mukund (in kg) is:

Ans
✔ 1. 49

✗ 2. 59

✗ 3. 69

✗ 4. 64

Q.29 Simplify: $x(6x - 9) + 6(x^2 - 3) + 19$

Ans
✗ 1. $12x^2 - 9x - 1$

✔ 2. $12x^2 - 9x + 1$

✗ 3. $-12x^2 - 9x + 1$

✗ 4. $-12x^2 - 9x - 1$

Q.30 Pooja, Harsh, and Madhur invest ₹1,120, ₹1,320, and ₹1,160, respectively to start a business. If the profit at the end of the year is ₹1,080, then what is the share of Madhur in the profit?

Ans
✔ 1. ₹348

✗ 2. ₹349

✗ 3. ₹351

✗ 4. ₹347

Section : **General Intelligence and Reasoning**

Q.1 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. HPJ

✔ 2. QYR

✗ 3. KSM

✗ 4. NVP

Q.2 I, J, K, L, O, P and Q are sitting around a circular table facing the centre of the table. Only two people sit between Q and K when counted from the right of Q. Only two people sit between K and O. Only three people sit between Q and P. I sits to the immediate left of L. Who sits third to the left of J?

Ans
✗ 1. K

✔ 2. L

✗ 3. Q

✗ 4. I

Q.3 Seven people, I, J, K, L, P, Q and R, are sitting in a row, facing north. Only two people sit to the right of K. Only two people sit between K and R. Only two people sit between I and Q. Q sits to the immediate left of K. L sits to the immediate right of P. Who sits at the third position from the left end of the row?

Ans
✔ 1. J

✗ 2. L

✗ 3. I

✗ 4. R

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

$100 × 4 + 11 ÷ 2 − 18 = ?$

Ans
✗ 1. 27

✗ 2. 15

✔ 3. 21

✗ 4. 36

Q.5 What should come in place of the question mark (?) in the given series?

22 25 36 39 50 ?

Ans
✗ 1. 54

✔ 2. 53

✗ 3. 52

✗ 4. 55

Q.6 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

ELJ HOM KRP NUS ?

Ans
✗ 1. OVT

✗ 2. QXT

✔ 3. QXV

✗ 4. QVT

Q.7 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. FIM

     ✖ 2. ORV

     ✔ 3. ZBF

     ✖ 4. PSW

Q.8 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

NUB 1, JQX 4, FMT 10, BIP 22, XEL 46, ?

Ans   ✖ 1. TAI 94

     ✔ 2. TAH 94

     ✖ 3. NAH 94

     ✖ 4. TUH 94

Q.9 Read the given statement(s) 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 statement(s).

Statements:
Some Blueberries are Melons.
All Melons are Grapefruits.

Conclusions:
I. No Blueberries are Grapefruits.
II. Some Grapefruits are Blueberries.

Ans   ✖ 1. Both conclusions (I) and (II) follow.

     ✖ 2. Neither conclusion (I) nor (II) follows.

     ✖ 3. Only conclusion (I) follows.

     ✔ 4. Only conclusion (II) follows.

Q.10 Refer to the five three-digit numbers given below and answer the question that follows.

(Left) 869 509 779 491 863 (Right)

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

If all the numbers are arranged in ascending order, the position of how many numbers will remain unchanged?

Ans   ✖ 1. 4

     ✔ 2. 2

     ✖ 3. 3

     ✖ 4. 1

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

83 91 107 139 203 ?

Ans   ✖ 1. 335

     ✖ 2. 321

     ✖ 3. 332

     ✔ 4. 331

Q.12 What will come in the place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

25 × 5 − 18 ÷ 3 + 15 = ?

Ans ✗ 1. 42

✗ 2. 41

✔ 3. 44

✗ 4. 43

Q.13 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
QMJ−GCZ
CYV−SOL

Ans ✗ 1. UQN−JGC

✗ 2. UPL−JFC

✔ 3. VRO−LHE

✗ 4. UPL−KGD

Q.14 In a certain code language, 'RAID' is coded as '3527' and 'DOGS' is coded as '1346'. What is the code for 'D' in the given code language?

Ans ✗ 1. 7

✔ 2. 3

✗ 3. 4

✗ 4. 1

Q.15 Umar starts from Point A and drives 7 km towards North. He then takes a right turn, drives 4 km, turns right and drives 11 km. He then takes a right turn and drives 9 km. He takes a final right turn, drives 4 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. 4 km to the North

✗ 2. 5 km to the North

✗ 3. 4 km to the South

✔ 4. 5 km to the East

Q.16 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 1 6 9 & 9 € & 2 6 £ £ $ @ % * % (Right)

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

Ans ✗ 1. 1

✗ 2. 3

✗ 3. 4

✔ 4. 2

Q.17 In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Select the number-pair in which the numbers are related in the same way as are the numbers of the following pairs.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

12, 53
25, 105

Ans ✗ 1. 15, 55

✔ 2. 5, 25

✗ 3. 18, 72

✗ 4. 20, 100

Q.18 Seven boxes F, G, H, I, K, L, and O are kept one over the other but not necessarily in the same order. Only three boxes are kept above G. Only one box is kept between F and G. Only three boxes are kept between F and K. K is kept at some place above G. O is kept immediately below K. L is kept at one of the places above I. H is not kept immediately above or below F.
Which box is kept at the lowermost position?

Ans ✗ 1. O

✗ 2. F

✔ 3. I

✗ 4. H

Q.19 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. No box is kept above F. Only three boxes are kept between F and E. Only one box is kept between C and A. A is kept immediately above E. Only four boxes are kept between C and B. D is kept at some place above G. How many boxes are kept between F and G?

Ans ✗ 1. 3

✔ 2. 4

✗ 3. 2

✗ 4. 1

Q.20 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some planes are buses.
No bus is a truck.

Conclusions:
(I): No truck is a bus.
(II): Some buses are planes.

Ans ✗ 1. Only conclusion (I) follows.

✗ 2. Only conclusion (II) follows.

✔ 3. Both conclusions (I) and (II) follow.

✗ 4. Neither conclusion (I) nor (II) follows.

Q.21 NMOK is related to QHRF in a certain way based on the English alphabetical order. In the same way, TCUA is related to WXXV. To which of the following is ZSAQ related, following the same logic?

Ans ✔ 1. CNDL

✗ 2. DOCK

✗ 3. DNEM

✗ 4. BMFG

Q.22 Ravi starts from Point A and drives 8 km towards south. He then takes a left turn, drives 9 km, turns right and drives 5 km. He then takes a right turn and drives 4 km. He takes a final right turn, drives 13 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. 5 km towards west

✘ 2. 13 km towards east

✘ 3. 16 km towards west

✘ 4. 16 km towards north

Q.23 Each of the digits in the number 5312768 is arranged in ascending order from left to right. What will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

Ans ✔ 1. 9

✘ 2. 6

✘ 3. 8

✘ 4. 7

Q.24 Seven boxes P, Q, R, S, X, Y and Z are kept one over the other, but not necessarily in the same order. Only two boxes are kept between P and Z. Only X is kept above S. No box is kept below Z. R is kept at some place below Y, but at some place above Q. Which box is kept third above Q?

Ans ✔ 1. Y

✘ 2. R

✘ 3. P

✘ 4. S

Q.25 If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 8524796, then which of the following digits will be second from the right in the new number thus formed?

Ans ✘ 1. 8

✔ 2. 7

✘ 3. 5

✘ 4. 9

Q.26 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. PIR

✘ 2. JCL

✘ 3. MFO

✔ 4. HAI

Q.27 In a certain code language,
A $ B means 'A is the mother of B'
A + B means 'A is the brother of B'
A @ B means 'A is the wife of B'
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'?

Ans ✘ 1. Wife's father

✘ 2. Wife's father's sister

✘ 3. Father's mother

✔ 4. Wife's father's mother

Q.28 In a certain code language, 'GAVE' is coded as '4629' and 'AIDS' is coded as '1395'.
What is the code for 'A' in the given code language?

Ans ✖ 1. 5

✔ 2. 9

✖ 3. 6

✖ 4. 1

Q.29 SACU is related to YGIA in a certain way based on the English alphabetical order. In the same way, QYAS is related to WEGY. To which of the following is IQSK related, following the same logic?

Ans ✖ 1. OLPI

✖ 2. WQER

✔ 3. OWYQ

✖ 4. LOER

Q.30 What should come in place of the question mark (?) in the given series?

8 13 23 38 58 ?

Ans ✖ 1. 85

✖ 2. 80

✔ 3. 83

✖ 4. 90