रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS
सीईएन - 04/2026 - जेई, डीएमएस, सीएमए - CEN - 04/2026 - JE, DMS, CMA

Test Date	28/10/2026
Test Time	12:45 PM - 2:15 PM
Subject / Exam Group	RRB JE DMS CMA 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 : **RRB JE DMS CMA CBT I**

Q.1 **Two runners start from the same point on a circular track at the same time, moving in the same direction at speeds of 15 km/h and 12.5 km/h. They meet again for the first time after 12 minutes. What is the length of the circular track in meters?**

Ans
- ✗ 1. 400
- ✗ 2. 550
- ✓ 3. 500
- ✗ 4. 450

Q.2 **Z is the sister of Y. Y is the brother of P. F is the father of C. C is the son of P. How is Z related to F?**

Ans
- ✗ 1. Daughter
- ✗ 2. Wife's mother
- ✓ 3. Wife's sister
- ✗ 4. Sister

Q.3 **Two wires made of the same material have lengths in the ratio 1 : 3 and areas of cross-section in the ratio 2 : 1. What is the ratio of their resistances?**

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

Q.4 **What is formed when an acid reacts with a base in a neutralisation reaction?**

Ans
- ✗ 1. Salt and gas
- ✗ 2. Only salt
- ✗ 3. Only water
- ✓ 4. Salt and water

Q.5 **Who among the following was the head of government that hosted the Indian Prime Minister during the first visit by an Indian Prime Minister to New Zealand in 40 years, held in Auckland in July 2026?**

Ans
- ✗ 1. Anthony Albanese
- ✗ 2. Winston Peters
- ✓ 3. Christopher Luxon
- ✗ 4. Christopher Hipkins

Q.6 **What primarily causes a valley breeze to move up a mountain slope during the day?**

Ans

✗ 1. The gravitational pull of the moon lifts the air up.

✗ 2. Cooler air from the slope sinks into the valley during the day.

✗ 3. The valley floor warms more quickly than the mountain slope.

✓ 4. The mountain slope warms more quickly than the valley floor.

Q.7 **The current population of a town is 18,625. It increases by 25% in the first year and by 24% in the second year, but decreases by 4% in the third year. What is the population of the town at the end of the third year?**

Ans

✓ 1. 27,714

✗ 2. 27,708

✗ 3. 27,724

✗ 4. 27,718

Q.8 **A cricket kit is listed for ₹8000. If a dealer receives a 12% scheme discount and an additional 8% cash discount on the reduced price, what is the amount the dealer pays?**

Ans

✗ 1. ₹7040.80

✗ 2. ₹6560.80

✓ 3. ₹6476.80

✗ 4. ₹7360.08

Q.9 **Refer to the following letter, symbol series and answer the question.**
(Left) C Ω H & G L Y X N Ω + * λ $ A % & $ P Q K (Right)
If all the letters are dropped from the series, which of the following will be seventh from the left?

Ans

✗ 1. λ

✓ 2. $

✗ 3. +

✗ 4. Ω

Q.10 **In a certain code language,**
A √ B means 'A is the father of B'
A ≠ B means 'A is the wife of B'
A ~ B means 'A is the son of B'
A ¥ B means 'A is the sister of B'

Based on the above, how is B related to L if 'B ≠ C ~ D √ K ¥ L'?

Ans

✗ 1. Wife's brother

✗ 2. Wife's sister

✓ 3. Brother's wife

✗ 4. Sister

Q.11 **How does internal fertilisation provide an advantage to reptiles, birds, and mammals?**

Ans

✗ 1. It scales up the total number of eggs produced at once

✗ 2. It speeds up the rate at which fertilization occurs during mating

✗ 3. It enables many diverse animal species to colonize aquatic environments

✓ 4. It increases the survival chances of young ones by protecting the embryo

Q.12 **The "Shuddhi Movement," aimed at reconversion to Hinduism, was a distinctive feature of which of the following organizations?**

Ans

✗ 1. Brahmo Samaj

✓ 2. Arya Samaj

✗ 3. Prarthana Samaj

✗ 4. Ramakrishna Mission

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Q.13 **Exercise MILAN 2026, the Indian Navy's premier multilateral maritime exercise, concluded with its closing ceremony aboard which vessel?**

Ans
- ✔ 1. INS Vikrant
- ✘ 2. INS Chennai
- ✘ 3. INS Kolkata
- ✘ 4. INS Vikramaditya

Q.14 **Naman starts from point A and drives 12 km towards West. He then takes a left turn and drives 14 km. He takes a final right turn and drives 16 km and stops at point B. Pawan starts from point P, which is 13 km East of Point A, and drives 13 km towards West. He then takes a left turn and drives 14 km. He takes a final right turn and drives 18 km and stops at Point Q. What is the shortest distance between Point Q and Point B? (All turns are 90-degree turns only.)**

Ans
- ✘ 1. 7 km
- ✘ 2. 8 km
- ✘ 3. 9 km
- ✔ 4. 10 km

Q.15 **Divide ₹35,700 into three parts in such a way that half of the first part, one-fourth of the second part and one-eighth of the third part are equal. Find the first part (in ₹).**

Ans
- ✘ 1. 5,000
- ✘ 2. 4,800
- ✘ 3. 5,400
- ✔ 4. 5,100

Q.16 **Which gland secretes the hormone responsible for regulating growth and development in children?**

Ans
- ✔ 1. Pituitary gland
- ✘ 2. Adrenal gland
- ✘ 3. Pineal gland
- ✘ 4. Pancreas

Q.17 **The average weight of three men, A, B, and C, is 70 kg. When another man, D, joins the group, the average weight becomes 68 kg. Later, person A is replaced by person E, whose weight is 5 kg more than D. After this replacement, the average weight of B, C, D, and E becomes 70 kg. What is the weight of A (in kg)?**

Ans
- ✘ 1. 61
- ✘ 2. 60
- ✔ 3. 59
- ✘ 4. 65

Q.18 **A sculpture is lifted above the roof of a building and then placed on the roof. Compared to its highest point during lifting, the sculpture's gravitational potential energy after installation is _____.**

Ans
- ✔ 1. Less
- ✘ 2. Independent of height
- ✘ 3. Greater
- ✘ 4. Equal

Q.19 **Find the simple interest (in ₹) on ₹6,000 at the rate of 5% per annum, deposited on 10 February 2024 and withdrawn on 11 April 2024. For calculating interest, exclude the date of deposit and include the date of withdrawal, using the actual number of days in the leap year 2024.**

Ans
- ✗ 1. 49
- ✗ 2. 48
- ✗ 3. 51
- ✓ 4. 50

Q.20 **Parenchyma cells mainly function in:**

Ans
- ✓ 1. Storage and photosynthesis
- ✗ 2. Providing mechanical strength
- ✗ 3. Protection against pathogens
- ✗ 4. Transport of water

Q.21 **Which of the following correctly represents the chemical formula for water?**

Ans
- ✗ 1. H_2O_2
- ✗ 2. HO_2
- ✗ 3. H_2
- ✓ 4. H_2O

Q.22 **A manufacturer wants to produce baking soda on a large scale. Which combination of reactants should be used in the laboratory process for its preparation?**

Ans
- ✗ 1. Sodium hydroxide and hydrochloric acid in solution
- ✗ 2. Calcium carbonate and hydrochloric acid in water
- ✓ 3. Sodium chloride, ammonia, and carbon dioxide in water
- ✗ 4. Sodium chloride and sulfuric acid in dry air

Q.23 **A delivery drone flies from a warehouse to a remote outpost along a straight path. Its velocity-time graph for the entire journey consists of three straight segments: first, it accelerates uniformly from rest to 12 meters per second over 6 seconds; then, it maintains this velocity for the next 8 seconds; finally, it decelerates uniformly to a stop in 4 seconds. What is the total distance covered by the drone during this trip?**

Ans
- ✗ 1. 96 meters
- ✗ 2. 108 meters
- ✗ 3. 120 meters
- ✓ 4. 156 meters

Q.24 **In a certain code,**
'fast train arrives' is coded as 'mz ca nh',
'fast moves car' is coded as 'xk za mz' and
'quickly train moves' is coded as 'ca cf za'.
(All the codes are two-letter codes only.)

What does the code 'nh' stand for?

Ans
- ✗ 1. fast
- ✗ 2. car
- ✓ 3. arrives
- ✗ 4. train

Q.25 **A store sells 3 kurtas at ₹500 each and 2 kurtas at ₹700 each. What is the weighted average price per kurta?**

Ans
- ✗ 1. ₹600
- ✗ 2. ₹550
- ✓ 3. ₹580
- ✗ 4. ₹620

Black book

Q.26 **The 73rd Constitutional Amendment Act in India relates to which of the following?**

Ans

✗ 1. President's Rule

✗ 2. Judicial Review

✓ 3. Panchayati Raj Institutions

✗ 4. Financial Emergency

Q.27 **Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.**
(Left) B M @ & X N X @ P + H K A D S S G B Q R $ (Right)
How many such symbols are there each of which is immediately preceded by a symbol and also immediately followed by a letter?

Ans

✗ 1. Three

✓ 2. One

✗ 3. Four

✗ 4. Two

Q.28 **Each vowel in the word DEFENDER is changed to the second letter following it in the English alphabetical order, and each consonant is changed to the second letter preceding it in the English alphabetical order. Which of the following letters will appear exactly twice in the group of letters thus formed?**

Ans

✗ 1. D

✗ 2. C

✓ 3. B

✗ 4. O

Q.29 **A coastal ecosystem is threatened by pollution that kills microscopic algae. What is the most likely impact on the ecosystem's stability?**

Ans

✗ 1. Enhanced pollination rates among coastal plants

✗ 2. Increase in soil fertility along the coastal area

✗ 3. Faster decomposition of dead organic matter

✓ 4. Reduced level of dissolved oxygen in marine water

Q.30 **A wholesaler sells a cooler to a retailer at a profit of 10%, and the retailer sells it to a customer at a profit of 12%. If the customer pays ₹15,400, what is the cost price (in ₹) of the cooler to the wholesaler?**

Ans

✗ 1. 14,000

✗ 2. 13,000

✗ 3. 13,500

✓ 4. 12,500

Q.31 **Which of the following was one of the measures adopted in India during the post-1991 period to reform public sector enterprises?**

Ans

✗ 1. Increase in subsidies to public sector enterprises

✗ 2. Expansion of workforce in public sector enterprises

✓ 3. Disinvestment of government equity

✗ 4. Nationalization of private companies

Q.32 **The Bhilai Steel Plant in Chhattisgarh, set up during the Second Five-Year Plan, was established with the technical and financial collaboration of which country?**

Ans

✗ 1. West Germany

✗ 2. Japan

✓ 3. Former Soviet Union

✗ 4. United Kingdom

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Q.33 **A gardener pulls a sack through 12 m with a force of 350 N acting at an angle of 40° to the horizontal. What is the work done by the gardener?**

Ans

✗ 1. 4200 J

✓ 2. 3220 J

✗ 3. 5000 J

✗ 4. 2690 J

Q.34 **The perimeter of a square is 44 m. Its area (in m^2) is:**

Ans

✗ 1. 132

✓ 2. 121

✗ 3. 124

✗ 4. 104

Q.35 **If cosec A + cot A = 3, find the value of sin A.**

Ans

✗ 1. $\frac{1}{5}$

✗ 2. $\frac{2}{5}$

✓ 3. $\frac{3}{5}$

✗ 4. $\frac{1}{3}$

Q.36 **Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE – A two/three-digit number cannot be broken into individual digits for operations; e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two-digit number cannot be broken into individual digits.)**
8 – 13 – 5 – 17; 6 – 11 – 3 – 11

Ans

✓ 1. 5 – 10 – 2 – 8

✗ 2. 4 – 9 – 17 – 53

✗ 3. 13 – 18 – 10 – 28

✗ 4. 17 – 12 – 4 – 14

Q.37 **Akshat invested ₹36,400 at 10% per annum for 1 year at compound interest, compounded half-yearly. The amount received by him is:**

Ans

✗ 1. ₹40,587

✓ 2. ₹40,131

✗ 3. ₹39,471

✗ 4. ₹40,873

Q.38 Simplify the following expression.

$48 \div 6 + 3^2 \times 4 - (15 - 9) \times 2$

Ans

✗ 1. 28

✓ 2. 32

✗ 3. 30

✗ 4. 26

Q.39 **Why do ionic compounds generally have high melting points?**

Ans

✗ 1. They contain double bonds between atoms

✗ 2. They have weak intermolecular forces

✗ 3. They consist of individual molecules

✓ 4. They have strong electrostatic forces between ions

Blackbook

Q.40 **Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.**

JJG : MHE
WTQ : ZRO

Ans
- ✗ 1. KLH : MJF
- ✗ 2. GHO : JGM
- ✓ 3. RVL : UTJ
- ✗ 4. JKJ : MMH

Q.41 **The narrow belt of pebbles deposited at the foot of the Shiwaliks, where descending streams disappear underground, is known as the _____.**

Ans
- ✓ 1. Bhabar
- ✗ 2. Terai
- ✗ 3. Bhangar
- ✗ 4. Khadar

Q.42 **Which statement best describes how litmus paper is used to distinguish between an acid and a base in a laboratory setting?**

Ans
- ✗ 1. Both acids and bases turn litmus paper both colors at the same time.
- ✗ 2. Acids turn red litmus paper blue, and bases turn blue litmus paper red.
- ✓ 3. Acids turn blue litmus paper red, and bases turn red litmus paper blue.
- ✗ 4. Acids and bases do not change the color of litmus paper.

Q.43 **An escalator lifts a 120 kg crate vertically through a height of 7.5 m in 28 s. Due to friction, the escalator delivers only 80% of the ideal output power. (Take g = 9.8 m/s^2.) What is the actual average output power of the escalator?**

Ans
- ✗ 1. 315 W
- ✗ 2. 336 W
- ✗ 3. 282 W
- ✓ 4. 252 W

Q.44 **Why do meristematic cells generally lack large vacuoles?**

Ans
- ✓ 1. They divide continuously for growth
- ✗ 2. They provide cell strength
- ✗ 3. They absorb minerals from soil
- ✗ 4. They store waste products

Q.45 **In the Northern Plains, a fertile tract of land lying between two interfluve rivers is locally termed as a _____.**

Ans
- ✗ 1. Terai
- ✓ 2. Doab
- ✗ 3. Khadar
- ✗ 4. Bhabar

Q.46 **Why does a rainbow display a sequence of colours in the sky after rain?**

Ans
- ✗ 1. Because the atmosphere absorbs all colours except seven.
- ✓ 2. Because sunlight is dispersed into its constituent colours by water droplets.
- ✗ 3. Because clouds emit different coloured light.
- ✗ 4. Because water droplets reflect only red light.

blackbook

Q.47 **The perimeters of two similar triangles ABC and PQR are 48 cm and 60 cm, respectively. If BC = 16 cm, then the side QR is:**

Ans
- ✗ 1. 60 cm
- ✓ 2. 20 cm
- ✗ 3. 80 cm
- ✗ 4. 40 cm

Q.48 **A pipe can fill a tank in 23 minutes, while another pipe can empty a full tank in 92 minutes. If both pipes are opened simultaneously when the tank is empty, how many minutes will it take to fill three-fourths of the tank?**

Ans
- ✗ 1. 19
- ✗ 2. 21
- ✗ 3. 25
- ✓ 4. 23

Q.49 **The powers and functions of Gram Sabha in India are provided by which of the following authority?**

Ans
- ✗ 1. The Constitution of India
- ✗ 2. Indian Parliament
- ✓ 3. The Legislature of the State
- ✗ 4. Rules made by the Gram Panchayat

Q.50 **A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.**

Question: Five friends – Qirat, Reyansh, Samika, Tushar and Urvika – are sitting around a circular table facing the centre. Who is sitting immediately to the right of Reyansh?

Statements:
(I) Qirat sits second to the right of Reyansh.
(II) Samika sits second to the left of Reyansh.

Ans
- ✗ 1. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
- ✗ 2. Data in statement I alone is sufficient to answer the question while data in Statement II is not.
- ✓ 3. Data in both statements I and II together are NOT sufficient to answer the question.
- ✗ 4. Data in statement II alone is sufficient to answer the question while data in statement I is not.

Q.51 **Why are gymnosperms better suited to dry environments than bryophytes?**

Ans
- ✗ 1. They produce flowers
- ✗ 2. They need constant moisture
- ✓ 3. They have needle-like leaves
- ✗ 4. They lack true roots

Q.52 **Each of the digits in the number 13457829 is arranged in ascending order from left to right. The position of how many digits will remain unchanged as compared to that in the original number?**

Ans
- ✗ 1. One
- ✗ 2. Three
- ✗ 3. None
- ✓ 4. Two

Q.53 **Which of the following social reform movements, which gained momentum in the 19th century, was a direct response to the socio-cultural impact of British rule?**

Ans
- ✗ 1. The Quit India Movement
- ✓ 2. The Brahmo Samaj
- ✗ 3. The Khilafat Movement
- ✗ 4. The Non-Cooperation Movement

Q.54 **An oceanographic research vessel travels 84 km downstream on a river in 6 hours to reach a sampling station. On the return upstream journey, the vessel encounters an additional tidal current of 1 km/h flowing against its direction, causing the 84 km return trip to take 14 hours. What is the speed of the research vessel in still water?**

Ans
- ✓ 1. 10.5 km/h
- ✗ 2. 12 km/h
- ✗ 3. 11.5 km/h
- ✗ 4. 9.5 km/h

Q.55 **Find the mean deviation from the mean for the following data set.**

58, 65, 42, 66, 49, 59, 44, 45, 62, 60

Ans
- ✗ 1. 7.7
- ✗ 2. 7
- ✗ 3. 7.4
- ✓ 4. 8

Q.56 **The largest four-digit number which when divided by 11, 10 and 9 leaves remainder 8 in each case is:**

Ans
- ✗ 1. 9900
- ✗ 2. 9898
- ✓ 3. 9908
- ✗ 4. 9918

Q.57 **The 2030 Agenda for Sustainable Development, adopted by the United Nations General Assembly in 2015, consists of how many Sustainable Development Goals (SDGs)?**

Ans
- ✗ 1. 20
- ✗ 2. 8
- ✓ 3. 17
- ✗ 4. 15

Q.58 **A man sells a mobile phone for ₹660 and incurs a certain loss. If he had sold it for ₹14,400, his gain would have been twice the amount of the former loss. The cost price (in ₹) of the mobile phone is:**

Ans
- ✓ 1. 5,240
- ✗ 2. 5,440
- ✗ 3. 4,840
- ✗ 4. 5,040

Q.59 **What is the role of cytokinins in plants?**

Ans
- ✗ 1. They cause wilting
- ✓ 2. They promote cell division
- ✗ 3. They inhibit cell division
- ✗ 4. They inhibit root growth

blackbook

Q.60 If 'A' stands for '÷' , 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-' , what will come in place of the question mark '?' in the following equation?
124 A 4 C 32 B 6 D 27 =?

Ans
- ✔ 1. 196
- ✘ 2. 200
- ✘ 3. 195
- ✘ 4. 198

Q.61 Which of the following statements about bleaching powder is correct?
(I) It is prepared by passing chlorine gas over dry slaked lime.
(II) It is used for bleaching cotton and linen in textile industries.
(III) It is used to disinfect drinking water.
(IV) It is prepared by passing carbon dioxide over slaked lime.

Ans
- ✘ 1. Only I, III and IV
- ✘ 2. Only II, III and IV
- ✔ 3. Only I, II and III
- ✘ 4. Only I and II

Q.62 What is the main function of barrier contraceptive methods such as condoms and vaginal covers?

Ans
- ✘ 1. They alter hormone levels in the body
- ✘ 2. They change the uterus lining
- ✔ 3. They prevent sperm from reaching the egg
- ✘ 4. They kill all bacteria in the reproductive tract

Q.63 In March 2026, PM-STIAC discussed Advanced Manufacturing Systems as a priority area for India's technology ecosystem. What was the main focus of this discussion?

Ans
- ✘ 1. Creating export incentives for technology units
- ✘ 2. Limiting manufacturing research to defence labs
- ✔ 3. Strengthening India's advanced manufacturing capabilities
- ✘ 4. Expanding India's public-sector factory automation

Q.64 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. MQ-HK
- ✘ 2. KO-FI
- ✘ 3. OS-JM
- ✔ 4. QU-LP

Q.65 What is the area (in m^2) of a regular hexagon whose perimeter is 9 m? (Note: Rounded off to three decimal places.)

Ans
- ✔ 1. 5.846
- ✘ 2. 8.545
- ✘ 3. 210.447
- ✘ 4. 5.754

Q.66 Find the value of $\frac{2\cos^2 170^\circ - 2\sin^2 170^\circ}{\sin 140^\circ}$.

Ans
- ✘ 1. $\sin 70^\circ$
- ✘ 2. $\cos 70^\circ$
- ✘ 3. $\text{cosec } 70^\circ$
- ✔ 4. $\sec 70^\circ$

blackbook

Q.67 **Each vowel in the word EXTIRPATION is changed to the letter immediately following it in the English alphabetical order AND each consonant is changed to the second letter preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?**

Ans

✗ 1. Two

✗ 2. Four

✓ 3. Three

✗ 4. One

Q.68 **A borrower must pay off a principal of ₹10,000 through 7 equal monthly installments at 1.5% monthly compound interest. Which of the following is closest to the total amount paid after all installments?**

Ans

✓ 1. ₹10,600

✗ 2. ₹10,200

✗ 3. ₹11,200

✗ 4. ₹11,000

Q.69 **Which of the given letter-number clusters will replace the question mark (?) in the following series to make it logically complete?**

UAN −3 SEK 6 QIH −12 ? MQB −48

Ans

✗ 1. MME 22

✗ 2. ONE 24

✓ 3. OME 24

✗ 4. NNE 22

Q.70 **The difference between the present ages of Radha and Murari is 17 years. Five years ago from now, the sum of their ages was 19 years. If Radha is older than Murari, find Murari's present age (in years).**

Ans

✗ 1. 12

✓ 2. 6

✗ 3. 8

✗ 4. 5

Q.71 **Raman's monthly income is ₹71,800. He saves 7.5% of his income. If his income increases by 35% and his expenditure increases by 40%, then his savings will:**

Ans

✗ 1. Increase by ₹1,440

✗ 2. Decrease by ₹1,431

✓ 3. Decrease by ₹1,436

✗ 4. Increase by ₹1,434

Q.72 **Which of the following is an example of a solution?**

Ans

✗ 1. Rice mixed with pulses

✗ 2. Oil mixed with water

✓ 3. Sodium chloride dissolved in water

✗ 4. Sand mixed with iron filings

Q.73 **Which of the following natural phenomena involves refraction and dispersion of sunlight in a manner similar to a glass prism?**

Ans

✓ 1. Formation of a rainbow after rainfall

✗ 2. Formation of a shadow by an opaque object

✗ 3. Heating of a black surface in sunlight

✗ 4. Reflection of your face in a plane mirror

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Q.74 **A laboratory technician uses two wires, one made of nichrome and the other of silver, each having the same length and diameter. To reduce the resistance of the circuit and minimize heat loss under identical operating conditions, which material should be chosen for the replacement wire?**

Ans

✗ 1. Nichrome

✗ 2. The material with the shiniest color

✗ 3. Any material with the lowest melting point

✓ 4. Silver

Q.75 **For a grouped data with classes 0-10, 10-20, 20-30, 30-40 with frequencies 5, 8, 12, 7 respectively, what is the median?**

Ans

✗ 1. 24.5

✓ 2. 22.5

✗ 3. 23.5

✗ 4. 21.5

Q.76 **Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operations on the second number result in the third number and so on. Which of the given options follows the same set of operations as in the question? (NOTE: A two/three digit number cannot be broken into individual digits for operations. E.g. if 37 is followed by 10, the operation cannot be 3+7 as a two-digit number cannot be broken into individual digits.)**
146 – 120 – 90 – 75;
130 – 104 – 74 – 59

Ans

✗ 1. 124 – 98 – 78 – 64

✗ 2. 108 – 72 – 42 – 27

✗ 3. 142 – 116 – 86 – 61

✓ 4. 134 – 108 – 78 – 63

Q.77 **Seven people, D, E, F, G, U, V and W, are sitting in a row facing the North. F sits to the immediate left of W. Only three people sit between E and W. Only two people sit between D and F. G sits to the immediate right of U. No one sits to the right of D. How many people sit between V and G?**

Ans

✗ 1. Four

✗ 2. One

✗ 3. Three

✓ 4. Two

Q.78 **This question is based on the following words**
(left) WAG APE EEL PUP (right)
How many letters are there between the second letter of the first word from the right and the second letter of the first word from the left as per English alphabetical order?

Ans

✗ 1. 20

✓ 2. 19

✗ 3. 22

✗ 4. 18

Q.79 **A scientist observes a tiny positively charged center surrounded by mostly empty space in an atom. Based on Rutherford's model, what can be concluded?**

Ans

✗ 1. Atoms are solid spheres with no internal structure

✗ 2. Positive and negative charges are spread uniformly throughout the atom

✓ 3. The atom has a dense central nucleus with electrons orbiting around it

✗ 4. Electrons are embedded within the nucleus in the atom

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Q.80 **In a precision manufacturing lab, a flat metallic strip carrying an electric current is positioned horizontally above a conveyor belt. A strong, uniform magnetic field is applied vertically upward through the strip. If the conveyor belt suddenly accelerates eastward while the current in the strip flows south, what best describes the resulting direction of the net force on the strip due to the magnetic field and the belt's motion?**

Ans

✗ 1. Opposite to the current's direction, toward the entrance of the lab

✓ 2. Perpendicular to both the magnetic field and current, directed toward the wall behind the belt

✗ 3. Parallel to the belt's motion, directed east

✗ 4. Downward, along the magnetic field direction

Q.81 **A solid sphere of radius 9 cm is melted and recast into two different shapes: a cone and a cylinder. The cone has a base radius of 6 cm, and the cylinder has a base radius 3 cm. If the height of the cone is twice the height of the cylinder, find the height of the cone. (Round off the answer to the nearest whole number of centimetres.)**

Ans

✗ 1. 63 cm

✗ 2. 54 cm

✗ 3. 65 cm

✓ 4. 59 cm

Q.82 **Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.**
EAP : GDM
HCN : JFK

Ans

✗ 1. DQJ : FSG

✓ 2. KDO : MGL

✗ 3. OPF : QSB

✗ 4. NIU : PLQ

Q.83 **Which statement best explains why plant tissues are generally not specialized for movement like animal tissues?**

Ans

✓ 1. Plants do not require locomotion.

✗ 2. Plant cells lack a cell membrane.

✗ 3. Plants have no permanent tissues.

✗ 4. Plant tissues cannot divide.

Q.84 **The angles of a quadrilateral ABCD are $\angle A = 3x+5°$, $\angle B = 4x-3°$, $\angle C = 2x+10°$, $\angle D = x+8°$. Find the measure of $\angle A$**

Ans

✓ 1. 107°

✗ 2. 110°

✗ 3. 127°

✗ 4. 117°

Q.85 **The 2026 Khelo India Winter Games were organised in two legs. The Ladakh leg mainly featured which category of sports?**

Ans

✗ 1. Water sports

✓ 2. Ice sports

✗ 3. Beach sports

✗ 4. Combat sports

Q.86 **Each of A, B, C, D, E, F and G has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. B has the exam on Friday. Only two people have the exam between E and B. Only four people have the exam between A and E. F has the exam immediately after C. G does not have the exam on Monday. How many people have the exam between G and D?**

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

Q.87 **X and Y invest in a business in the ratio 1 : 7. At the end of the year, 20% of the total profit is donated to charity, and the remaining profit is divided between X and Y in the ratio of their investments. If X receives ₹1,932 as his share, find the total profit (in ₹) earned by the business.**

Ans
- ✗ 1. 19,270
- ✓ 2. 19,320
- ✗ 3. 19,420
- ✗ 4. 19,170

Q.88 **If $-6p - 2q - r = -17$, $5p + q - 6r = 19$ and $-4p - 6q - 6r = -20$, then what is the value of $p + q + r^2$?**

Ans
- ✗ 1. 8
- ✗ 2. 5
- ✓ 3. 6
- ✗ 4. 4

Q.89 **Which statement best describes a reduction reaction in terms of electron movement?**

Ans
- ✗ 1. Reduction involves loss of electrons by a substance.
- ✗ 2. Reduction involves gain of protons by a substance.
- ✓ 3. Reduction involves gain of electrons by a substance.
- ✗ 4. Reduction involves no change in electron count.

Q.90 **In this question, a group of numbers/symbols is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then the codes for the respective number/symbol are to be followed directly as given in the table.**

Number/Symbol	8	2	@	?	%	&	5	!	1	*
Code	G	D	M	B	U	L	T	I	X	C

Conditions –
(i) If the first element is a symbol, interchange the codes of the first and last elements.
(ii) If the second and third elements are symbols, code the third element as the code of the second element.
(iii) If the fourth element is a symbol, code both fourth and fifth elements as ©.

What is the code for the following group of number-symbols?
82@?%

Ans
- ✗ 1. ©DMBU
- ✗ 2. GDT©U
- ✓ 3. GDM©©
- ✗ 4. GLMB©

Q.91 **Madhubani painting, known for its double-outlined figures and dense floral borders, originated in which Indian state?**

Ans
- ✗ 1. Maharashtra
- ✗ 2. Rajasthan
- ✗ 3. Odisha
- ✓ 4. Bihar

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Q.92 What should come in place of the question mark (?) in the given series?

5 8 28 53 95 142 ?

Ans
- ✔ 1. 206
- ✘ 2. 210
- ✘ 3. 194
- ✘ 4. 197

Q.93 Evaluate: 88 - {7 - (-48) ÷ (-16)}

Ans
- ✘ 1. 82
- ✔ 2. 84
- ✘ 3. 88
- ✘ 4. 86

Q.94 What is the area of a regular polygon that has 9 diagonals and a side length of 8 cm?

Ans
- ✘ 1. $64\sqrt{3}\ \text{cm}^2$
- ✘ 2. $84\sqrt{3}\ \text{cm}^2$
- ✔ 3. $96\sqrt{3}\ \text{cm}^2$
- ✘ 4. $72\sqrt{3}\ \text{cm}^2$

Q.95 B, C, V, W, Y and Z each scored different marks. Only two people have scored more than C. Only V has scored less than B. Y has scored more than W but less than Z. How many people have scored more than Y?

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

Q.96 Six friends, D, E, F, W, X and Z, live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor, which is numbered 6.
Only two people live between E and Z. X lives on floor number 1. Only two people live between F and D. Only one person lives between X and D. E lives above D.
How many people live between W and F?

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

Q.97 Which of the following government schemes encourages rural women to participate in micro-enterprises through Self Help Groups?

Ans
- ✘ 1. Stand-Up India Scheme
- ✔ 2. Deendayal Antyodaya Yojana - National Rural Livelihoods Mission
- ✘ 3. Deen Dayal Upadhyaya Gram Jyoti Yojana
- ✘ 4. Pradhan Mantri Employment Generation Programme

Q.98 Which of the following best describes how an ion is formed from a neutral atom?

Ans
- ✘ 1. By increasing or decreasing the number of protons in the nucleus
- ✘ 2. By splitting or fusing the atomic nucleus to alter its charge
- ✘ 3. By adding or removing neutrons from the nucleus
- ✔ 4. By gaining or losing electrons while the number of protons remains unchanged

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Q.99 **A ray of light passes through a rectangular glass slab and emerges into air. How is the emergent ray related to the incident ray?**

Ans

✗ 1. It follows the same path as the incident ray.

✗ 2. It is perpendicular to the incident ray.

✗ 3. It makes a different angle with the normal than the incident ray.

✓ 4. It is parallel to the incident ray but laterally displaced.

Q.100 **What should come in place of the question mark (?) in the given series?**

16 30 25 39 34 ?

Ans

✗ 1. 39

✗ 2. 45

✓ 3. 48

✗ 4. 29

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