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

Test Date	27/10/2026
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 **The older alluvial tract of the Northern Plains, which forms terrace-like features above the floodplain, contains calcareous lime concretions locally called _____.**

Ans
✗ 1. Reh
✓ 2. Kankar
✗ 3. Kallar
✗ 4. Bhur

Q.2 **Which statement best illustrates the Law of Constant Proportions in a chemical compound?**

Ans
✓ 1. Water always contains hydrogen and oxygen in a fixed ratio by mass.
✗ 2. Salt can have changing ratios of sodium and chlorine.
✗ 3. Air contains varying amounts of gases based on location.
✗ 4. Copper sulfate may have different amounts of copper and sulfur.

Q.3 **Why is the enrichment of ores necessary before extracting metals?**

Ans
✗ 1. To change the physical state of the ore from solid to liquid before extraction
✗ 2. To mix the ore with impurities to increase its weight
✗ 3. To convert the ore into a pure metal directly without further processing
✓ 4. To reduce the cost and energy required during metal extraction by removing impurities

Q.4 **Which of the following metals react with moist carbon dioxide in the air and slowly loses its shiny brown surface and gains a green coat?**

Ans
✓ 1. copper
✗ 2. gold
✗ 3. aluminium
✗ 4. zinc

Q.5 **A, B, U, V, Y, and Z each scored different marks. Only two people have scored less than V. A has scored immediately more than U. Only two people have scored between U and B. Z has scored more than Y. No one has scored less than B. How many people have scored more than Z?**

Ans
✗ 1. Two
✗ 2. One
✗ 3. Three
✓ 4. Zero

Q.6 **Which structural feature enables arteries to withstand high blood pressure?**

Ans

✔ 1. Thick, elastic walls

✘ 2. One-cell thick walls

✘ 3. Thin, elastic walls

✘ 4. Valves to stop backflow

Q.7 **Which of the following is NOT a duty of the Vice-President as the Chairman of the Rajya Sabha?**

Ans

✘ 1. Allowing members to speak

✘ 2. Maintaining order in the House

✔ 3. Casting a vote in every bill

✘ 4. Putting bills and motions to vote

Q.8 **The revised Delegation of Financial Powers for Defence Services, released in June 2026, was mainly aimed at strengthening which aspect of defence administration?**

Ans

✘ 1. Foreign procurement through single vendors

✘ 2. Civilian control over sports bodies

✘ 3. Recruitment rules for Agniveers

✔ 4. Operational efficiency of field commanders

Q.9 **What is the average of the following six decimal numbers: 1.2, 2.4, 3.6, 4.8, 5.0, and 6.0? (Rounded off to two decimal places)**

Ans

✘ 1. 3.60

✔ 2. 3.83

✘ 3. 4.25

✘ 4. 2.83

Q.10 **In 2026, AIKosh was highlighted in India's AI governance and innovation ecosystem. What is AIKosh mainly associated with?**

Ans

✘ 1. Cybercrime police stations

✔ 2. AI datasets and sectoral models

✘ 3. Satellite-launch authorisation

✘ 4. Defence procurement contracts

Q.11 **If 40% of a number is added to 120, then the result is the same number. 80% of the same number is:**

Ans

✘ 1. 120

✘ 2. 180

✔ 3. 160

✘ 4. 140

Q.12 **In a row of 54 people facing the north, Firoz is 23rd from the left end. If Sourav is sitting 5th to the left of Firoz, what is Sourav's position from the right end of the line?**

Ans

✘ 1. 36^{th}

✘ 2. 35^{th}

✔ 3. 37^{th}

✘ 4. 34^{th}

Q.13 **The position(s) of how many letters will remain unchanged if each of the letters in the word MOBILE is arranged in the English alphabetical order?**

Ans

✔ 1. Zero

✘ 2. One

✘ 3. Two

✘ 4. Three

Q.14 **An equilateral triangle ABC is inscribed in a circle of radius 10 cm with centre O. Find the radius of that circle which is inscribed in equilateral triangle ABC.**

Ans

✘ 1. 6 cm

✔ 2. 5 cm

✘ 3. 8 cm

✘ 4. 4 cm

Q.15 **A cart is pulled 5.4 m along a horizontal surface by a 40 N force acting at an angle of 30° to the horizontal. What is the work done by the force (approximately)?**

Ans

✘ 1. 135 J

✔ 2. 187 J

✘ 3. 169 J

✘ 4. 175 J

Q.16 If $\sec^2\alpha + \tan^2\alpha = \frac{5}{3}$, what is the value of $\tan 2\alpha$?

Ans

✘ 1. ± 1

✘ 2. $\pm \frac{1}{\sqrt{3}}$

✔ 3. $\pm \sqrt{3}$

✘ 4. 0

Q.17 **Simplify the following.**

$100 - [20 + 5 \times (4^2 - 6)]$

Ans

✘ 1. 40

✔ 2. 30

✘ 3. 33

✘ 4. 29

Q.18 **Two friends, X and Y, started a business with initial capital contributions of ₹180 and ₹240, respectively. At the end of the year, the business made a profit of ₹17,297. Find the share of X (in ₹) in the profit.**

Ans

✔ 1. 7,413

✘ 2. 7,363

✘ 3. 7,263

✘ 4. 7,313

Q.19 **Which Indian cricketer became the fourth Indian to surpass 20,000 international runs in December 2025?**

Ans

✘ 1. Sourav Ganguly

✔ 2. Rohit Sharma

✘ 3. Virat Kohli

✘ 4. Shikar Dhawan

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Q.20 **After two years of 7% compound depreciation, a toy car's value is ₹21,576. What was the toy car's value at the end of the first year?**

Ans

✗ 1. ₹23,900

✓ 2. ₹23,200

✗ 3. ₹22,500

✗ 4. ₹23,320

Q.21 **If a square-shaped park is surrounded by a path of uniform width of 2.5 metres all around it and area of the path is 295 square metres, find the area of the park, including the path.**

Ans

✗ 1. 729 m^2

✗ 2. 625 m^2

✓ 3. 1024 m^2

✗ 4. 900 m^2

Q.22 **Homologous series have the same:**

Ans

✗ 1. Molecular mass

✗ 2. Molecular formula

✗ 3. Number of carbon atoms

✓ 4. General formula

Q.23 **A product is sold at a profit of 179% on its cost price. If the cost price and selling price are interchanged, what percentage loss would be incurred on the transaction? Give your answer correct to two decimal places.**

Ans

✗ 1. 65.69%

✓ 2. 64.16%

✗ 3. 64.13%

✗ 4. 65.56%

Q.24 **The release of a mature egg every month from an ovary in human females is called _____.**

Ans

✗ 1. Implantation

✓ 2. Ovulation

✗ 3. Fertilization

✗ 4. Menstruation

Q.25 **Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.**
(Left) R © @ G D $ @ % N P D # P D % N © F H $ Z H (Right)
How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a letter?

Ans

✗ 1. 8

✗ 2. 7

✗ 3. 5

✓ 4. 4

Q.26 **Which of the following compounds can undergo an addition reaction, and what feature of its structure makes this possible?**

Ans

✓ 1. Ethene; Because it contains a double bond

✗ 2. Propane; Because it contains only single bonds

✗ 3. Ethanol; Because it has a hydroxyl group

✗ 4. Methanoic acid; Because it contains a carboxylic group

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Q.27 **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:
Among 5 sticks, R, D, A, L and X, each having a different height, which stick is the tallest?

Statements:
(I) A is shorter than only two sticks. X is taller than A.
(II) L is taller than X.

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

Q.28 **Rohan is the son of Vikram. Vikram is the brother of Neha. Neha is the wife of Arjun. Arjun is the father of Priya. How is Rohan related to Priya?**

Ans
✗ 1. Father's sister's son
✓ 2. Mother's brother's son
✗ 3. Father's brother's son
✗ 4. Mother's sister's son

Q.29 **If the object distance is negative in the mirror formula, what does this indicate about the object's position?**

Ans
✗ 1. The object is behind the mirror
✓ 2. The object is placed in front of the mirror
✗ 3. The object is at the center of curvature
✗ 4. The object is at the focal point

Q.30 **If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?**

25 − 4 ÷ 15 + 42 × 2 = ?

Ans
✗ 1. 96
✓ 2. 94
✗ 3. 97
✗ 4. 98

Q.31 **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.**

GLR : EJV
MTS : KRW

Ans
✗ 1. KKJ : IIM
✗ 2. MXP : KZT
✓ 3. LHO : JFS
✗ 4. JMN : HLR

Q.32 **This question is based on the following words**
(left) OPT DOG NOD HAT (right)
How many letters are there between the third letter of the third word from the right and the first letter of the first word from the left as per English alphabetical order?

Ans
✗ 1. 10
✗ 2. 6
✗ 3. 8
✓ 4. 7

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Q.33 **What happens to a ray of light when it passes from air into a glass convex lens?**

Ans

✗ 1. It continues in a straight line without bending

✗ 2. It bends away from the normal as it enters the lens

✓ 3. It bends towards the normal as it enters the lens

✗ 4. It reflects back into the air

Q.34 **A ball rolls down a slope with a constant acceleration of 3 meters per second squared for 4 seconds. What is its final velocity if it started from rest?**

Ans

✗ 1. 16 meters per second

✗ 2. 3 meters per second

✓ 3. 12 meters per second

✗ 4. 7 meters per second

Q.35 **What should come in place of the question mark (?) in the given series?**

17 28 50 83 127 ?

Ans

✗ 1. 188

✗ 2. 193

✗ 3. 199

✓ 4. 182

Q.36 **Black soil, valued for its high moisture-retention capacity and suitability for cotton cultivation, is chiefly derived from the weathering of Deccan Trap lava and is found across which region of India?**

Ans

✓ 1. Deccan Plateau

✗ 2. Eastern Himalayas

✗ 3. Indo-Gangetic Plain

✗ 4. Thar Desert

Q.37 **Why does the inner lining of the uterus thicken each month during a woman's reproductive years?**

Ans

✓ 1. To prepare for possible implantation of a fertilized egg

✗ 2. To trigger the release of reproductive hormones

✗ 3. To support sperm movement through the uterus

✗ 4. To assist the ovary in releasing mature eggs

Q.38 **A delivery robot moves a package along a conveyor belt. If the robot doubles the mass of the package but keeps the acceleration unchanged, what happens to the force the robot must apply considering other resistive forces negligible?**

Ans

✗ 1. The force required by the robot remains unchanged

✓ 2. The force required by the robot becomes twice as large as before

✗ 3. The force required by the robot becomes half as large as before

✗ 4. The force required by the robot becomes four times as large as before

Q.39 **What happens when a nonbiodegradable substance remains on earth for a longer period?**

Ans

✗ 1. Enhances the soil nutrition & promotes environment health

✗ 2. Promote the water cycle of environment

✗ 3. Improves the quality of life of nearby living animals

✓ 4. Causes pollution & harms the members of ecosystem

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Q.40 In a certain code,
'honest successful person' is coded as 'cf py kj',
'honest reviews film' is coded as 'cb iq cf' and
'all successful reviews' is coded as 'py yj iq'.
(All the codes are two-letter codes only.)

What is the code for successful?

Ans
✗ 1. cf
✓ 2. py
✗ 3. vj
✗ 4. kj

Q.41 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?

5 B 6 D 117 A 3 C 18 = ?

Ans
✗ 1. 18
✓ 2. 9
✗ 3. 21
✗ 4. 13

Q.42 174 is related to 81 following a certain logic. Following the same logic, 196 is related to 92. To which of the following is 324 related, following the same logic?
(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.)

Ans
✗ 1. 298
✗ 2. 195
✗ 3. 237
✓ 4. 156

Q.43 Which Viceroy of India was associated with the Cabinet Mission Plan?

Ans
✗ 1. Lord Irwin
✓ 2. Lord Wavell
✗ 3. Lord Mountbatten
✗ 4. Lord Linlithgow

Q.44 Luv starts from point A and drives 4 km towards east. He then takes a right turn and drives 10 km. He takes a final left turn and drives 8 km and stops at point B. Kush starts from point P, which is 13 km east of Point A, and drives 6 km towards east. He then takes a right turn and drives 10 km .He takes a final left turn and drives 2 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. 9 km
✗ 2. 8 km
✗ 3. 10 km
✗ 4. 11 km

Q.45 **In a certain code language,**
A + B means 'A is the mother of B'
A – B means 'A is the brother of B'
A x B means 'A is the wife of B'
A % B means 'A is the father of B'
A # B means 'A is the daughter of B'
Based on the above, how is Tm related to Pt if 'Tm % Np + Dm # Gu % Pt'?

Ans
✗ 1. Wife's father
✗ 2. Daughter's husband
✓ 3. Mother's father
✗ 4. Father's father

Q.46 **Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.**
(Left) % S = T A # O M O H E Z E L R U V & J C / (Right)
How many such letters are there each of which is immediately preceded by a symbol and also immediately followed by a letter?

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

Q.47 **What should come in place of '?' in the given series based on the English alphabetical order?**
LIF, SPM, ZWT, GDA, ?

Ans
✓ 1. NKH
✗ 2. NJI
✗ 3. OKH
✗ 4. OLI

Q.48 **Three resistors 18 Ω, 28 Ω and 36 Ω are connected in parallel. The equivalent resistance is _____.**

Ans
✗ 1. 82.00 Ω
✗ 2. 8.20 Ω
✓ 3. 8.40 Ω
✗ 4. 27.33 Ω

Q.49 **12 chairs and 5 tables cost ₹6,300 and 12 chairs and 4 tables cost ₹5,100. What is the cost of 4 chairs and 17 tables?**

Ans
✗ 1. ₹20,503
✓ 2. ₹20,500
✗ 3. ₹20,498
✗ 4. ₹20,502

Q.50 **Which of the following statements about the atomic number is CORRECT?**

Ans
✓ 1. Atomic number determines the number of electrons in a neutral atom.
✗ 2. Atomic number is the sum of protons and neutrons in an atom.
✗ 3. Atomic number changes when an atom loses or gains electrons.
✗ 4. Atomic number is always greater than the mass number.

Q.51 If the mean of the following data is 41, then what is the value of x?

Class	20-30	30-40	40-50	50-60	60-70
Frequency	48	39	43	25	X

Ans
✗ 1. 27
✓ 2. 20
✗ 3. 25
✗ 4. 22

Q.52 Find the value of $\frac{1}{\cos^2 80^\circ} - \tan^2 80^\circ$.

Ans
✗ 1. 0
✓ 2. 1
✗ 3. $\cot^2 40^\circ$
✗ 4. $\cot^2 160^\circ$

Q.53 **Why is a flower covered with a cloth bag during pollination experiments?**

Ans
✓ 1. To prevent unwanted pollen from reaching the flower
✗ 2. To accelerate the overall growth rate of the petals
✗ 3. To protect the growing plant from catching the disease
✗ 4. To shield the delicate plant from heavy wind and rain

Q.54 **Which of the following leaders is correctly matched to the organization he founded?**

Ans
✓ 1. Sir Syed Ahmed Khan – Aligarh Movement
✗ 2. Jyotirao Phule – Paramahansa Mandali
✗ 3. M. G. Ranade – Brahmo Samaj
✗ 4. Swami Vivekananda – Arya Samaj

Q.55 **A student tests a substance in water and finds that it turns blue litmus paper red and increases electrical conductivity. What is the most likely identity of the substance?**

Ans
✗ 1. A neutral substance
✓ 2. An acid
✗ 3. A base
✗ 4. A salt

Q.56 **Rabindranath Tagore was awarded the Nobel Prize in Literature in which year?**

Ans
✓ 1. 1913
✗ 2. 1915
✗ 3. 1919
✗ 4. 1917

Q.57 **R,S,T,U,G,H and I are sitting around a circular table facing the centre of the table.**
Only four people sit between G and S when counted from the right of G.G sits third to the left of U.
H sits third to the left of R.T is an immediate neighbor of both S and U.
How many people sit between I and T when counted from the right of I?

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

blaoo

Q.58 **The symbol Fe for iron is derived from:**

Ans

✗ 1. the colour of the iron.

✗ 2. the name of its ore called ferrate.

✗ 3. France as it was found there for the first time.

✓ 4. its Latin name ferrum.

Q.59 **Which symbol represents the element Oxygen in the periodic table?**

Ans

✗ 1. N

✗ 2. H

✓ 3. O

✗ 4. C

Q.60 **Atharv has to travel 918 km to reach Amritsar in 20 hours. He travels at 65 km/h for the first 7 hours and then covers the next 183 km at 61 km/h. At what speed should he travel for the remaining distance to reach Amritsar in exactly 20 hours?**

Ans

✗ 1. 32 km/h

✓ 2. 28 km/h

✗ 3. 36 km/h

✗ 4. 24 km/h

Q.61 **In a controlled laboratory experiment, a drone hovers motionless above a sealed tank filled with a dense gas. As the drone's rotors accelerate, the drone unexpectedly begins to ascend even though its overall mass remains unchanged. Which best explains the upward movement of the drone in terms of Newton's third law and the nature of action-reaction pairs between the drone and the gas?**

Ans

✓ 1. The rotors push the dense gas downward, and the gas exerts an equal upward force on the drone, causing it to rise.

✗ 2. The dense gas is unaffected by the rotors, so the drone rises due to internal mechanisms only.

✗ 3. The drone creates a pressure difference above and below itself, but the gas experiences no direct force from the rotors.

✗ 4. The drone pulls itself upward without interacting with the gas, so no reaction force is involved.

Q.62 **Divide ₹31500 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. 4200

✗ 2. 4400

✗ 3. 4600

✓ 4. 4500

Q.63 **A manufacturer fixes his selling price at 26% over the cost of production. If the cost of production goes up by 8%, and the manufacturer raises his selling price by 50%, find the profit percentage.**

Ans

✗ 1. 76%

✗ 2. 73%

✓ 3. 75%

✗ 4. 72%

Q.64 **One of the quadrilateral's diagonals is 54 cm long, and the perpendiculars drawn from the other two vertices this diagonal are 38 and 18 cm, respectively. Determine the quadrilateral's area.**

Ans

✗ 1. $1612\ \text{cm}^2$

✗ 2. $1812\ \text{cm}^2$

✓ 3. $1512\ \text{cm}^2$

✗ 4. $1712\ \text{cm}^2$

Q.65 Which value of m satisfies the following equation?

$$\left(\frac{11}{4}\right)^{11} \times \left(\frac{4}{11}\right)^{12} \times \left(\frac{11}{4}\right)^{5} = \left(\frac{4}{11}\right)^{7m+17}$$

Ans
- ✔ 1. -3
- ✘ 2. -5
- ✘ 3. -4
- ✘ 4. -15

Q.66 **Article 21 of the Constitution of India is related to which right?**

Ans
- ✘ 1. Right to Education
- ✘ 2. Right to Freedom of Religion
- ✔ 3. Protection of Life and Personal Liberty
- ✘ 4. Right to Equality

Q.67 **In which structure does the digestion of complex substances into simpler ones occur in Amoeba?**

Ans
- ✘ 1. In the cytoplasm directly
- ✘ 2. At the cell membrane
- ✔ 3. Inside the food-vacuole
- ✘ 4. Within the nucleus

Q.68 **A 382 m long train running at a speed of 72 km/h passes a platform in 30 seconds. Find the length of the platform (in m).**

Ans
- ✔ 1. 218
- ✘ 2. 215
- ✘ 3. 216
- ✘ 4. 217

Q.69 **One pipe can fill the tank in 24 minutes while another pipe can empty the tank in 88 minutes. If both the pipes are operated together on an empty tank, how long (in minutes) will it take to fill one-third of the tank?**

Ans
- ✔ 1. 11
- ✘ 2. 22
- ✘ 3. 44
- ✘ 4. 33

Q.70 **Each vowel in the word BECOMINGS is changed to the letter immediately preceding it in the English alphabetical order, and each consonant is changed to the letter immediately following it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?**

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

Q.71 **What should come in place of the question mark (?) in the given series?**

3.6 7.8 12.0 16.2 20.4 24.6 ?

Ans
- ✘ 1. 27.8
- ✘ 2. 28.6
- ✘ 3. 27.4
- ✔ 4. 28.8

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Q.72 **Which of the following explains why microwaves and radio waves contribute little to warming the Earth?**

Ans
- ✗ 1. They are blocked by clouds
- ✗ 2. They are absorbed by ozone
- ✗ 3. They are trapped by gases
- ✓ 4. They carry very little energy

Q.73 **If the molecular mass of a diatomic element X_2 is 70 u, the atomic mass of X is:**

Ans
- ✗ 1. 70 u
- ✓ 2. 35 u
- ✗ 3. 17.5 u
- ✗ 4. 140 u

Q.74 **The average marks obtained in mathematics by the students of a class was 63. The average marks obtained by the boys is 20% more than the average marks obtained by the girls. If the ratio of the number of boys to that of girls is 5 : 8, then the average marks obtained by the girls is:**

Ans
- ✗ 1. 58
- ✗ 2. 62
- ✗ 3. 59.7
- ✓ 4. 58.5

Q.75 **The marshy, forested Terai belt lying south of the Bhabar is well known for hosting which national park?**

Ans
- ✗ 1. Gir National Park
- ✓ 2. Dudhwa National Park
- ✗ 3. Ranthambore National Park
- ✗ 4. Kaziranga National Park

Q.76 **13 is related to 98 following a certain logic. Following the same logic, 21 is related to 154. To which of the following is 25 related, following the same logic?**
(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.)

Ans
- ✓ 1. 182
- ✗ 2. 195
- ✗ 3. 163
- ✗ 4. 174

Q.77 **The diagonals of a rhombus shaped field are 138 m and 184 m long. What is the perimeter (in m) of the field?**

Ans
- ✗ 1. 445
- ✗ 2. 479
- ✓ 3. 460
- ✗ 4. 465

Q.78 **When white light passes through a prism, it splits into a spectrum of colours. Which factor primarily determines the order of these colours?**

Ans
- ✗ 1. The geometric shape of the prism
- ✓ 2. The variation in refractive index for different wavelength
- ✗ 3. The angle at which the white light enters the prism
- ✗ 4. The width of the white light beam

blackbook

Q.79 **A certain sum of money, when invested at simple interest, amounts to ₹1,750 in 2 years and ₹2,500 in 3 years. Find the rate of interest per annum, in %.**

Ans
- ✔ 1. 300
- ✘ 2. 125
- ✘ 3. 100
- ✘ 4. 200

Q.80 **Evaluate: 88 − {7 − (−48) ÷ (−12)}**

Ans
- ✔ 1. 85
- ✘ 2. 84
- ✘ 3. 83
- ✘ 4. 86

Q.81 **Which of the following organisms can synthesize their own food using sunlight and chlorophyll?**

Ans
- ✘ 1. Herbivores
- ✘ 2. Fungi
- ✔ 3. Green plants
- ✘ 4. Omnivores

Q.82 **Sachin invested ₹45000 at 4% per annum for 1 year at compound interest, compounded half-yearly. The amount received by him is:**

Ans
- ✔ 1. ₹46818
- ✘ 2. ₹46865
- ✘ 3. ₹47784
- ✘ 4. ₹46055

Q.83 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

 # : KHO:: MJQ: %

Ans
- ✘ 1. # = JGM, % = NKR
- ✔ 2. # = JGN, % = NKR
- ✘ 3. # = JGN, % = NKS
- ✘ 4. # = JGN, % = NLR

Q.84 **Which of the following countries hosted the 75th Lindau Nobel Laureate Meeting, held during June–July 2026, where young researchers interacted with Nobel laureates from around the world?**

Ans
- ✘ 1. Sweden
- ✘ 2. Switzerland
- ✘ 3. Austria
- ✔ 4. Germany

Q.85 **Which of the following accurately describes the main function of xylem vessels in complex permanent tissue?**

Ans
- ✘ 1. Providing only plant support
- ✘ 2. Transporting prepared food downward
- ✔ 3. Transporting water and minerals upward
- ✘ 4. Storing resins and latex

blackbook

Q.86 **Which of the following is a quantitative tool of monetary policy used by the Reserve Bank of India?**

Ans

✗ 1. Budget

✗ 2. Direct Action

✗ 3. Moral Suasion

✓ 4. Statutory Liquidity Ratio

Q.87 **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 is the one that does not belong to that group?**
(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ 1. IL-CG

✗ 2. KN-EI

✓ 3. DJ-AF

✗ 4. MP-GK

Q.88 **A set of books is listed at ₹2,000. A bookseller offers a scheme discount of 15% on the marked price. What is the net price the customer pays?**

Ans

✗ 1. ₹1,800

✓ 2. ₹1,700

✗ 3. ₹1,600

✗ 4. ₹1,750

Q.89 **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 4 @ 9 # 1 % 7 & 2 $ 8 + 5 6

Code J M W T H P L F D R A U K Q

Conditions –
(i) If the first element is a symbol, code the fourth element as ©.
(ii) If the second element is odd and the fourth element is even, code the fourth element as ©.
(iii) If the third element is a symbol, replace the fifth code with the third code.

What is the code for the following?
5 9 1 8 2

Ans

✓ 1. KWH©D

✗ 2. KWHAD

✗ 3. K©HAD

✗ 4. KWHWD

Q.90 **Points M, N, X, and T lie on sides PQ, QR, RS, and SP, respectively, of square PQRS. If MNXT is also a square whose area is 74.5% of the area of PQRS, and XR > MQ, find the ratio MQ : XR.**

Ans

✗ 1. 2 : 15

✓ 2. 3 : 17

✗ 3. 4 : 5

✗ 4. 5 : 14

Q.91 **A chef installs a new heating filament in a restaurant toaster, ensuring that the filament is twice as long and made from a material with half the resistivity of the previous one, but keeps the cross-sectional area unchanged. Compared to the old filament, what will happen to the resistance of the new filament?**

Ans

✔ 1. It will remain the same as before

✘ 2. It will be four times greater than before

✘ 3. It will be half as much as before

✘ 4. It will be twice as much as before

Q.92 **The price (per litre) of petrol increases by 52%. By what percentage should its consumption be changed so that the total expenditure on petrol increases by only 14%?**

Ans

✘ 1. Increase by 30%

✔ 2. Decrease by 25%

✘ 3. Increase by 10%

✘ 4. Decrease by 20%

Q.93 **Who serves as the Chairperson of the National Disaster Management Authority (NDMA) as per the Disaster Management Act, 2005?**

Ans

✘ 1. Chairperson, NITI Aayog

✘ 2. Cabinet Secretary

✘ 3. Union Home Minister

✔ 4. Prime Minister of India

Q.94 **Which Five-Year Plan of India was postponed by two years due to political uncertainty at the centre and worsening balance of payment position, rising debt burden, widening budget deficits, recession in industry and inflation?**

Ans

✔ 1. Eighth Five-Year Plan

✘ 2. Fourth Five-Year Plan

✘ 3. Third Five-Year Plan

✘ 4. Second Five-Year Plan

Q.95 **A closed rectangular box has its edge lengths in the ratio 5 : 6 : 7. If it's total surface area is 3424 cm^2, find the length of the smallest edge.**

Ans

✔ 1. 20 cm

✘ 2. 24 cm

✘ 3. 16 cm

✘ 4. 18 cm

Q.96 **All 67 people are standing in a row facing North. Diksha is 13th from the left end while Raghav is 15th from the right end. How many people are there between Diksha and Raghav?**

Ans

✘ 1. 40

✔ 2. 39

✘ 3. 37

✘ 4. 38

Q.97 The value of $\frac{\left\{\left(\frac{2}{3}-\frac{1}{5}\right)^3+\left(\frac{1}{5}-\frac{1}{4}\right)^3+\left(\frac{1}{4}-\frac{2}{3}\right)^3\right\}}{\left\{\left(\frac{2}{3}\right)^2-\left(\frac{1}{5}\right)^2\right\}^3+\left\{\left(\frac{1}{5}\right)^2-\left(\frac{1}{4}\right)^2\right\}^3+\left\{\left(\frac{1}{4}\right)^2-\left(\frac{2}{3}\right)^2\right\}^3}$ is

Ans

✗ 1. $1\frac{7}{60}$

✓ 2. $2\frac{114}{143}$

✗ 3. 1

✗ 4. $5\frac{13}{125}$

Q.98 **During which stage of the water cycle does water vapor change into liquid form, often leading to cloud formation?**

Ans

✗ 1. Precipitation

✓ 2. Condensation

✗ 3. Transpiration

✗ 4. Evaporation

Q.99 **The table represents the number of persons in different age groups living in a building. Find the value of f, given that the mode of the data is 39.**

Age (in years)	Number of persons
0 – 15	12
15 – 30	f
30 – 45	24
45 – 60	18
60 – 75	11
75 - 90	7

Ans

✗ 1. 20

✗ 2. 12

✗ 3. 17

✓ 4. 15

Q.100 **An object is moved 7 m horizontally by a constant force of 250 N. It is then lifted 1 m vertically by the same force. In which case is more work done?**

Ans

✗ 1. More work is done during lifting because it is against gravity.

✓ 2. More work is done during horizontal motion because the displacement is greater.

✗ 3. Less work is done during horizontal motion because the object is not lifted.

✗ 4. Equal work is done in both cases because the applied force is the same.

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