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	4:30 PM - 6:00 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 **Which of the following is the correct chemical formula of Ferric oxide?**

Ans
- ✗ 1. Fe_2O_4
- ✗ 2. Fe_3O_2
- ✗ 3. FeO
- ✓ 4. Fe_2O_3

Q.2 **What characteristic change allows litmus solution to identify whether an aqueous substance is acidic or basic?**

Ans
- ✗ 1. Gas evolution confirms acidic or basic nature
- ✓ 2. Colour changes differently in acidic and basic solutions
- ✗ 3. Electrical conductivity increases in acidic solutions only
- ✗ 4. Temperature variation occurs during indicator reaction

Q.3 **What should come in place of '?' in the given series based on the English alphabetical order?**
UMP TLO SKN RJM ?

Ans
- ✗ 1. QIK
- ✗ 2. QJL
- ✓ 3. QIL
- ✗ 4. QJK

Q.4 **Which of the following is a kharif crop, sown with the onset of the south-west monsoon and harvested in autumn?**

Ans
- ✓ 1. Rice
- ✗ 2. Wheat
- ✗ 3. Gram
- ✗ 4. Mustard

Q.5 **A large hall has bare walls and a hard ceiling. People find it difficult to hear speeches clearly because the sound persists for some time after the speaker stops. What is the most likely reason?**

Ans
- ✗ 1. The speed of sound decreases inside the hall.
- ✗ 2. Sound cannot travel properly inside enclosed spaces.
- ✗ 3. The loudness of the speaker is too low.
- ✓

Q.6 **Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on first number results in the second number. Similarly, certain mathematical operation on second number results in the third number and so on. Which of the given options follows the same set of operations as in 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)
4 - 14 - 24 - 34 ; 10 - 20 - 30 - 40

Ans
- ✔ 1. 32 - 42 - 52 - 62
- ✘ 2. 39 - 49 - 59 - 79
- ✘ 3. 5 - 10 - 20 - 30
- ✘ 4. 17 - 37 - 47 - 57

Q.7 **Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.**
(Left) 4 Ω 2 & 8 * 1 @ 7 $ 3 % 5 £ 9 & 6 # 2 (Right)
How many such symbols are there, each of which is immediately preceded by an odd number but not immediately followed by an odd number?

Ans
- ✘ 1. Two
- ✘ 2. None
- ✘ 3. Three
- ✔ 4. One

Q.8 **The Chhau dance, which combines martial traditions with storytelling, is primarily associated with which of the following states?**

Ans
- ✘ 1. Punjab, Haryana, and Himachal Pradesh
- ✔ 2. Odisha, West Bengal, and Jharkhand
- ✘ 3. Gujarat, Rajasthan, and Madhya Pradesh
- ✘ 4. Kerala, Karnataka, and Tamil Nadu

Q.9 **What does the reactivity series represent?**

Ans
- ✘ 1. Arrangement of salts in order of their solubility
- ✘ 2. Arrangement of acids in order of their strength
- ✘ 3. Arrangement of gases in order of their density
- ✔ 4. Arrangement of metals in order of their reactivity

Q.10 **A principal of ₹10,000 is invested at an annual interest rate of 12% for 3 months, where interest is compounded monthly. What is the difference between the compound interest and simple interest earned in this period? (Rounded off to the nearest integer)**

Ans
- ✘ 1. ₹12
- ✘ 2. ₹0
- ✘ 3. ₹30
- ✔ 4. ₹3

Q.11 **Find the simple interest (in ₹) on ₹6,000 at the rate of 5% per annum, deposited on 9 February 2024 and withdrawn on 10 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. 48
- ✘ 2. 51
- ✘ 3. 49
- ✔ 4. 50

Q.12 **A woman is experiencing difficulty in carrying a pregnancy to term due to weak muscular support for the developing foetus. Which organ is most likely involved?**

Ans
- ✘ 1. Vagina
- ✘ 2. Cervix
- ✘ 3. Ovary
- ✔ 4. Uterus

Q.13 **A copper wire of length 2 m and cross-sectional area 1×10^{-6} m^2 has a resistance of 0.034 Ω. What is the resistivity of copper?**

Ans
- ✗ 1. 1.07×10^{-7} Ω·m
- ✗ 2. 6.8×10^{-8} Ω·m
- ✗ 3. 3.4×10^{-8} Ω·m
- ✓ 4. 1.7×10^{-8} Ω·m

Q.14 **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. HGK
- ✗ 2. BAE
- ✓ 3. UUX
- ✗ 4. CBF

Q.15 **Find the volume of a sphere of radius $6\sqrt{2}$ cm.**

Ans
- ✓ 1. $576\sqrt{2}\pi$ cm^3
- ✗ 2. $578\sqrt{2}\pi$ cm^3
- ✗ 3. $574\sqrt{2}\pi$ cm^3
- ✗ 4. $572\sqrt{2}\pi$ cm^3

Q.16 **Two marbles rest on opposite sides of a rotating turntable in a science lab. The table is stopped abruptly. What best predicts the motion of the marbles immediately after the table halts?**

Ans
- ✗ 1. The marbles roll directly toward the center of the table as soon as it stops.
- ✗ 2. The marbles immediately come to a complete stop because of friction.
- ✗ 3. The marbles instantly change direction to match the table's new position.
- ✓ 4. The marbles continue moving tangentially due to their inertia.

Q.17 **What happens to the inner lining of the uterus in human females if the egg is not fertilised?**

Ans
- ✓ 1. It sheds and leaves the body
- ✗ 2. It stays thick in the uterus
- ✗ 3. It turns into a zygote
- ✗ 4. It is absorbed into the blood

Q.18 **If a car covers equal distances in equal intervals of time, its distance–time graph will show a _____.**

Ans
- ✓ 1. straight line inclined with time axis
- ✗ 2. curved line
- ✗ 3. horizontal straight line
- ✗ 4. zig-zag line

Q.19 **A researcher observes organisms growing on decaying wood in a moist forest. They lack chlorophyll and reproduce by spores. To which group do these organisms belong?**

Ans
- ✗ 1. Bacteria
- ✗ 2. Protozoa
- ✗ 3. Plants
- ✓ 4. Fungi

Q.20 **What should come in place of '?' in the given series?**

4 8 11 15 25 29 ?

Ans
- ✓ 1. 53
- ✗ 2. 56
- ✗ 3. 63
- ✗ 4. 66

Q.21 **Each letter in the word MENTHOL is arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter that is second from the left and the one that is second from the right in the new letter cluster thus formed?**

Ans
- ✗ 1. 9
- ✗ 2. 5
- ✓ 3. 6
- ✗ 4. 7

Q.22 **M, N, O, X, Y and Z live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.**
Only two people live between Y and O. Only N lives above X. M lives on an even numbered floor. Y lives on the lowermost floor.
How many people live between Z and N?

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

Q.23 **The circumradius of an equilateral triangle is 26 cm. The inradius of the triangle is:**

Ans
- ✓ 1. 13 cm
- ✗ 2. 8 cm
- ✗ 3. 52 cm
- ✗ 4. 26 cm

Q.24 **All 99 people are standing in a row facing North. Mr. Sonu is 6th from the left end while Mr. Pick is 67th from the right end. How many people are there between Mr. Sonu and Mr. Pick?**

Ans
- ✓ 1. 26
- ✗ 2. 23
- ✗ 3. 29
- ✗ 4. 27

Q.25 Find the value of $3[\sin^4 A - \cos^4 A + 1]\text{cosec}^2 A + 2$.

Ans
- ✗ 1. 5
- ✗ 2. 0
- ✗ 3. 3
- ✓ 4. 8

Q.26 **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, D, G, I, K and T, each having a different height, which stick is the shortest?

Statements:
(I) I is taller than only two sticks. D is shorter than I and G is shorter than D.
(II) K is taller than T.

Ans
- ✓ 1. Data in statement I alone is sufficient to answer the question while data in statement II is not.
- ✗ 2. Data in both statements I and II together are NOT sufficient to answer the question.
- ✗ 3. Data in both statements I and II together (and not statement I alone or statement II alone) are 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.27 A and B invest in a business in the ratio 3 : 8. At the end of the year, 20% of the total profit is donated to charity, and the remaining profit is divided between A and B in the ratio of their investments. If A receives ₹2028 as his share, find the total profit (in ₹) earned by the business.

Ans
- ✗ 1. 9345
- ✗ 2. 9145
- ✓ 3. 9295
- ✗ 4. 9245

Q.28 What was the "Swadeshi" movement's central idea in its early phase (pre-1905)?

Ans
- ✗ 1. Boycott of all British goods
- ✓ 2. Protection of indigenous industries
- ✗ 3. Religious revivalism
- ✗ 4. Demand for complete independence

Q.29 A cube of side 14 cm is cut into 8 smaller congruent cubes by planes through midpoints of edges. Find the total surface area (in cm^2) of all 8 small cubes.

Ans
- ✗ 1. 2312
- ✗ 2. 2342
- ✓ 3. 2352
- ✗ 4. 2388

Q.30 Each of the digits in the number 15326748 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. Two
- ✗ 2. None
- ✗ 3. One
- ✓ 4. Three

Q.31 Arvind bought an article for ₹x. He sold it to Biru at a loss of 16%. Biru spent ₹159 on its transportation and sold it to Minu at a profit of 56%. If Minu bought it for ₹1,755, then what is the value of x?

Ans
- ✗ 1. 1,075
- ✗ 2. 1,100
- ✗ 3. 1,125
- ✓ 4. 1,150

Q.32 What should come in place of the question mark (?) in the given series?

193 180 167 154 141 128 ?

Ans
- ✗ 1. 111
- ✗ 2. 118
- ✓ 3. 115
- ✗ 4. 113

Q.33 Girl A, weighing 400 N, climbs a height of 8 m in 20 s. Girl B, also weighing 400 N, takes 50 s to climb the same height. What is the difference in power expended by the two girls?

Ans
- ✓ 1. 96 W
- ✗ 2. 128 W
- ✗ 3. 160 W
- ✗ 4. 64 W

Q.34 The population enumeration scheduled to be conducted in 2027 will be known as which of the following in the sequence of Indian censuses?

Ans
- ✗ 1. 17th Census of India
- ✗ 2. 14th Census of India
- ✓ 3. 16th Census of India
- ✗

Q.35 **Which type of water pollution results from excessive nitrates and phosphates stimulating aquatic plant overgrowth?**

Ans
- ✗ 1. Bioaccumulation
- ✓ 2. Eutrophication
- ✗ 3. Acidification
- ✗ 4. Sedimentation

Q.36 **In a 15-km race, Runner A and Runner B start simultaneously from the same point and run in the same direction. After running 6 km, A stops for 3 minutes due to a shoe issue, while B continues without stopping. Despite the delay, A still finishes the race 90 seconds ahead of B. If, instead, A gives B a head start of 1,200 metres and both runners run without stopping, A still finishes 40 seconds earlier. Assuming both runners always run at constant speeds, what is the minimum head start (in metres, rounded off to the nearest integer) that A must give B for the race to end in a tie?**

Ans
- ✗ 1. 1490 m
- ✗ 2. 1404 m
- ✗ 3. 1405 m
- ✓ 4. 1409 m

Q.37 **Which of the following regions receives the Sun's rays over the smallest area?**

Ans
- ✗ 1. Temperate region
- ✗ 2. Polar region
- ✗ 3. Northern region
- ✓ 4. Equatorial region

Q.38 **A car dealer marks a car at ₹6,75,000. After offering a discount, the customer pays ₹6,07,500. What was the percentage discount offered?**

Ans
- ✗ 1. 12%
- ✗ 2. 15%
- ✓ 3. 10%
- ✗ 4. 8%

Q.39 **Which article of the Indian Constitution gives Citizenship at the Commencement of the Constitution?**

Ans
- ✗ 1. Article 6
- ✗ 2. Article 16
- ✓ 3. Article 5
- ✗ 4. Article 26

Q.40 **In a certain code,**
'pen book diary' is coded as 'qt bx lm',
'diary scale eraser' is coded as 'np rw bx' and
'eraser pen marker' is coded as 'gv lm np'.
(All the codes are two-letter codes only.)
What is marker coded as?

Ans
- ✗ 1. np
- ✗ 2. rw
- ✗ 3. lm
- ✓ 4. gv

Q.41 **A school decides to host an awareness drive about the environmental impacts of changing attitudes toward disposables. Which combination of solutions should they promote to best address these issues?**

Ans
- ✗ 1. Encourage use of single-use plastics only
- ✗ 2. Focus only on biodegradable packaging without awareness programs
- ✓ 3. Promote reusable products and educate about waste segregation
- ✗ 4. Increase landfill space and ignore recycling

Q.42 Sudha starts from point A and drives 5 km towards East. He then takes a right turn and drives 22 km. He takes a final left turn and drives 4 km and stops at point B. Naman starts from point P, which is 42 km East of Point A, and drives 8 km towards West. He then takes a left turn and drives 22 km. He takes a final right turn and drives 9 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. 15 km
- ✗ 2. 17 km
- ✓ 3. 16 km
- ✗ 4. 14 km

Q.43 R, S, T, U, G, H, and I are sitting around a circular table facing the centre of the table.
G sits to the immediate right of U. Only three people sit between G and R when counted from the left of G. Only three people sit between U and I when counted from the right of I. S sits to the immediate right of H.
How many people sit between U and H when counted from the right of H?

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

Q.44 What is the value of $(81)^{\frac{3}{4}}$?

Ans
- ✗ 1. 3
- ✓ 2. 27
- ✗ 3. 81
- ✗ 4. 9

Q.45 This question is based on the following words
(left) HIP MIX UGH SET (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. 3
- ✗ 2. 2
- ✗ 3. 6
- ✗ 4. 4

Q.46 The highest peak of the Eastern Ghats, known alternatively as Jindhagada or Arma Konda, is located in which state?

Ans
- ✗ 1. Karnataka
- ✗ 2. Tamil Nadu
- ✗ 3. Odisha
- ✓ 4. Andhra Pradesh

Q.47 Find the average of first ten natural numbers (greater than 10) which when divided by 7 leaves remainder 6.

Ans
- ✗ 1. 28.6
- ✗ 2. 33.7
- ✓ 3. 44.5
- ✗ 4. 52.4

Q.48 A certain sum is invested at 20% per annum, compounded annually. If the compound interest earned specifically during the second year is ₹1,368, find the original sum invested.

Ans
- ✗ 1. ₹5,865
- ✗ 2. ₹4,825
- ✗ 3. ₹6,670
- ✓ 4. ₹5,700

Q.49 **The population of a district is 3,61,000, out of which 2,35,000 are males. 15% of the total population is literate. If 15% males are literate, then what percentage of females are literate?**

Ans

✗ 1. 20%

✗ 2. 8%

✓ 3. 15%

✗ 4. 12%

Q.50 **Which of the following explains why muscles need nervous tissue to function?**

Ans

✗ 1. Muscles coordinate responses alone

✗ 2. Muscles control the brain's activity

✗ 3. Muscles generate their own signals

✓ 4. Muscles receive signals from nerves

Q.51 **A student measures the focal length of a concave mirror using the distant object method but places the screen slightly away from the correct focus. What is the most likely effect on the image formed on the screen?**

Ans

✗ 1. The image will be laterally shifted with unchanged sharpness.

✗ 2. The image will appear sharper and more distinct than at the focal plane.

✗ 3. The image will be larger but retain perfect focus.

✓ 4. The image will appear slightly blurred due to being out of focus.

Q.52 **A mutation causes a plant cell to lose all functional plastids. What is the most likely consequence for the cell?**

Ans

✗ 1. The cell cannot regulate division

✗ 2. The cell cannot control water loss

✓ 3. The cell cannot synthesize food

✗ 4. The cell cannot synthesize proteins

Q.53 **Six years ago, the ratio of the ages of Kunal and Sagar was 6:5. Four years hence, the ratio of their ages will be 11:10. The difference between their present ages (in years) is:**

Ans

✗ 1. 4

✗ 2. 5

✗ 3. 3

✓ 4. 2

Q.54 **In a certain code language,**
'A ^ B' means 'A is the father of B',
'A ≠ B' means 'A is the son of B',
'A ≥ B' means 'A is the wife of B' and
'A @ B' means 'A is the brother of B'.
Based on the above, how is P related to X if 'P @ Q ≠ V ^ W ≥ X'?

Ans

✗ 1. Husband

✗ 2. Brother

✓ 3. Wife's brother

✗ 4. Daughter's husband

Q.55 **JMRB is related to FINX in a certain way based on the English alphabetical order. In the same way, NYQT is related to JUMP. To which of the following is KSCL related, following the same logic?**

Ans

✗ 1. IQAK

✗ 2. HPZI

✗ 3. FNXG

✓ 4. GOYH

Q.56 **Refer to the following letter, symbol series and answer the question.**
(Left) M P V L V T # + $ Ω N U λ L M F * B V Y E (Right)
If all the symbols are dropped from the series, which of the following will be sixth from the right?

Ans
✔ 1. M
✘ 2. L
✘ 3. U
✘ 4. F

Q.57 **12 is related to 100 following a certain logic. Following the same logic, 17 is related to 145. To which of the given options is 24 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 /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
✘ 1. 232
✘ 2. 216
✔ 3. 208
✘ 4. 224

Q.58 **Each vowel in the word CARRYABLE 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. G
✘ 2. W
✘ 3. Z
✔ 4. P

Q.59 **A 500 kg rocket engine fires, providing a constant thrust force of 10,000 N for 10 s. If the initial velocity was 100 m s $^{-1}$, what is the final velocity attained? (Ignore gravity and air resistance).**

Ans
✘ 1. 150 m/s
✔ 2. 300 m/s
✘ 3. 250 m/s
✘ 4. 200 m/s

Q.60 **What happens to the bud in a Hydra after it enlarges during budding?**

Ans
✘ 1. It transforms into a spore to survive
✘ 2. It remains attached to the main stem
✘ 3. It merges back into the parent organism
✔ 4. It separates to live as a new organism

Q.61 **A container is lifted vertically to a higher floor by an elevator. Which statement correctly describes the change in its gravitational potential energy?**

Ans
✘ 1. The potential energy remains unchanged because the container stops at the upper floor.
✘ 2. The potential energy depends on how quickly the elevator moves between the floors.
✔ 3. The potential energy increases by mgh, where m is the mass, g is the acceleration due to gravity, and h is the vertical height gained.
✘ 4. The potential energy increases only if the elevator accelerates throughout the entire ascent.

Q.62 **In a certain code,**
'rose lily lotus' is coded as 'rt ka mn',
'lotus jasmine tulip' is coded as 'pq dx rt' and
'tulip rose orchid' is coded as 'ka yz dx'.
(All the codes are two-letter codes only.)

What is orchid coded as?

Ans
✘ 1. pq
✘ 2. dx
✔ 3. yz
✘ 4. ka

Q.63 AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and ∠PEB = 47°. G is a point between AB and CD such that ∠BEG = 22° and ∠GFE = 21°. What is the measure of ∠EGF?

Ans

✔ 1. 48°

✘ 2. 39°

✘ 3. 57°

✘ 4. 52°

Q.64 In a rural region, an NGO conducted a survey across 30 villages to understand the monthly income distribution of households. The incomes are grouped into ranges as shown in the table below.

Income Range (In ₹)	Number of Households
0 - 5,000	8
5,001 - 10,000	15
10,001 - 15,000	22
15,001 - 20,000	30
20,001 - 25,000	25
25,001 - 30,000	20
30,001 - 35,000	10

Calculate the modal income (to the nearest integral value of ₹).

Ans

✔ 1. ₹18,077

✘ 2. ₹18,000

✘ 3. ₹17,965

✘ 4. ₹18,559

Q.65 Simplify the following expression using trigonometric formulas.

$$\sin^2(\theta) + 2\sin(\theta)\cos(\theta) + \cos^2(\theta)$$

Ans

✘ 1. 1 + cos(2θ)

✘ 2. $\sin^2(\theta)$

✘ 3. 2sin(θ)

✔ 4. 1 + sin(2θ)

Q.66 In which year was the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) launched by the Indian government to focus on the development of basic infrastructure in the selected cities and towns?

Ans

✘ 1. 2021

✘ 2. 2018

✔ 3. 2015

✘ 4. 2024

Q.67 B, C, V, W, Y, and Z each scored different marks. Only two people have scored less than Y. C has scored immediately more than B. Only two people have scored between B and W. Z has scored more than V. No one has scored less than W. How many people have scored more than V?

Ans

✘ 1. Three

✘ 2. Two

✔ 3. Four

✘ 4. One

Q.68 The symbol for the element with 3 protons and 4 neutrons is:

Ans

✔ 1. Li

✘ 2. B

✘ 3. Be

✘ 4. C

Q.69 **A factory wants to prevent corrosion of iron pipes exposed to moist air. Which approach would be most effective?**

Ans

✗ 1. Painting the pipes with a nonmetal-based paint

✗ 2. Keeping the iron pipes uncoated to allow oxidation

✓ 3. Coating the iron pipes with zinc to prevent direct contact with air and moisture

✗ 4. Using copper pipes instead of iron ones

Q.70 **A cap is sold after offering two successive discounts of 15% and 12% on the marked price. If the marked price of the cap is ₹500, what is its selling price?**

Ans

✓ 1. ₹374

✗ 2. ₹395

✗ 3. ₹352

✗ 4. ₹410

Q.71 **A double displacement reaction involves:**

Ans

✗ 1. Combination of identical atoms only

✓ 2. Exchange of ions between reactants

✗ 3. Formation of a single new compound

✗ 4. Loss of oxygen from substances

Q.72 **Divide ₹26,600 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. 3,900

✗ 2. 3,700

✗ 3. 3,600

✓ 4. 3,800

Q.73 **At the Khelo India Winter Games 2026, in which event did Udreka Singh of Madhya Pradesh win the gold medal?**

Ans

✓ 1. Ice Skating – Long Track 500m

✗ 2. Alpine Skiing

✗ 3. Figure Skating

✗ 4. Snowboarding

Q.74 **The WTO Agreement on Agriculture (AoA) posed a challenge to Indian food security primarily through restrictions on which category of domestic subsidy?**

Ans

✗ 1. Green Box subsidies

✗ 2. Blue Box payments

✓ 3. Amber Box support

✗ 4. Yellow Box assistance

Q.75 **NOPS is related to RSTW in a certain way based on the English alphabetical order. In the same way, JKLO is related to NOPS. To which of the given options is DEFI related, following the same logic?**

Ans

✗ 1. HIIM

✗ 2. HHIM

✗ 3. HJIP

✓ 4. HIJM

Q.76 **If the sum of 8 numbers is 72, what is their average?**

Ans

✓ 1. 9

✗ 2. 8

✗ 3. 12

✗ 4. 10

Q.77 G is the father of O. O is the brother of T. R is the father of S. S is the son of T. How is G related to S?

Ans

✗ 1. Mother's brother

✗ 2. Father

✓ 3. Mother's father

✗ 4. Son

Q.78 Which of the following is a diatomic molecule of a compound?

Ans

✓ 1. HCl

✗ 2. Cl_2

✗ 3. H_2

✗ 4. O_2

Q.79 Metallic spheres of radii 6 cm, 8 cm and 10 cm, respectively, are melted to form a single solid sphere. Find the surface area of the resulting sphere.

Ans

✓ 1. $576\pi \text{ cm}^2$

✗ 2. $586\pi \text{ cm}^2$

✗ 3. $548\pi \text{ cm}^2$

✗ 4. $605\pi \text{ cm}^2$

Q.80 Which statement correctly distinguishes mitosis from meiosis?

Ans

✗ 1. Mitosis creates four cells, while meiosis creates two cells.

✓ 2. Mitosis produces identical cells, while meiosis creates cells with genetic variation.

✗ 3. Mitosis increases genetic diversity, while meiosis produces identical cells.

✗ 4. Mitosis reduces chromosome number, while meiosis does not.

Q.81 Guru Shikhar, in the Mount Abu massif of Rajasthan, is the highest peak of which mountain range — regarded as the oldest fold-mountain system in India?

Ans

✗ 1. Satpura Range

✗ 2. Vindhya Range

✓ 3. Aravalli Range

✗ 4. Eastern Ghats

Q.82 Which sequence correctly describes the path of an electrical impulse through a neuron?

Ans

✗ 1. Cell body to axon to dendrite

✓ 2. Dendrite to cell body to axon

✗ 3. Cell body to dendrite to axon

✗ 4. Axon to dendrite to cell body

Q.83 In a quiz audit, student's accuracy is defined as $E = \frac{\text{correct}}{\text{attempted}}$. The fraction E is in lowest terms, and its denominator is 2 more than the numerator. On the dashboard, the reciprocal metric is shown as $R = \frac{\text{attempted}}{\text{correct}}$. During correction, 3 invalid attempts are removed from the numerator of R (while its denominator remains unchanged). It is found that the adjusted reciprocal minus E equals $\frac{1}{15}$. Find the possible value of E.

Ans

✗ 1. 0.67

✓ 2. 0.6

✗ 3. 0.83

✗ 4. 0.57

Q.84 **A tank can be filled by one pipe in 24 minutes, while another pipe can empty a full tank in 27 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. 144
- ✗ 2. 171
- ✓ 3. 162
- ✗ 4. 153

Q.85 **Kaushal travelled for 6 hours and 45 minutes at a speed of 32 km/h. At what speed (in km/h) should he travel to cover the same distance in 3 hours?**

Ans
- ✓ 1. 72
- ✗ 2. 68
- ✗ 3. 74
- ✗ 4. 70

Q.86 **The relative atomic mass of chlorine is 35.5, even though no atom of chlorine has this exact mass. Which of the following best explains this observation?**

Ans
- ✗ 1. Chlorine atoms have fractional numbers of protons.
- ✓ 2. Chlorine atoms exist as a mixture of isotopes with different masses.
- ✗ 3. The atomic mass of chlorine changes with temperature.
- ✗ 4. Chlorine atoms lose mass when forming compounds.

Q.87 **What happens to the speed of sound in a medium when its temperature is increased?**

Ans
- ✗ 1. It remains the same
- ✗ 2. It decreases
- ✗ 3. It first decreases, then increases
- ✓ 4. It increases

Q.88 **Which Vietnamese resort island in the Gulf of Thailand gained international news coverage in July 2026 due to a major maritime tourist safety and emergency response event?**

Ans
- ✗ 1. Bali Island
- ✓ 2. Phu Quoc Island
- ✗ 3. Penang Island
- ✗ 4. Cebu Island

Q.89 **In a school with two sections, A and B, of class X, the mean marks in science of class X A is 76 and that of class X B is 71. The variance of marks in science of X A and X B are 2.16 and 5.16, respectively. Find the variance of the science marks of the class X students of the school if X A comprises 22 students and X B has 28 students.**

Ans
- ✓ 1. 10
- ✗ 2. 3.66
- ✗ 3. 7
- ✗ 4. 3.84

Q.90 **If 40% of a number is added to 120, then the result is the same number. 60% of the same number is:**

Ans
- ✓ 1. 120
- ✗ 2. 100
- ✗ 3. 140
- ✗ 4. 160

Q.91 **Which statement best describes the molecules of a compound?**

Ans
- ✗ 1. They are made of only one type of atom bonded together.
- ✗ 2. They are a physical mixture of different atoms, not chemically bonded.
- ✓ 3. They contain different atoms chemically bonded together
- ✗ 4. They always consist of exactly two atoms bonded together.

Q.92 **Why is carbon not used to extract highly reactive metals like magnesium and aluminum from their ores?**

Ans

✗ 1. Carbon catches fire at high temperatures used for extraction.

✗ 2. Carbon reacts with these metals to form carbides.

✓ 3. These metals have more affinity for oxygen than carbon.

✗ 4. These metals naturally occur in a free state and do not need extraction.

Q.93 **If the ratio of two numbers is 6 : 7, and their HCF is 8, then their LCM is:**

Ans

✗ 1. 280

✓ 2. 336

✗ 3. 224

✗ 4. 392

Q.94 **Solve the following system of linear equations for x, y and z.**

$x - 2y + 3z = 49$; $x - 6y - 4z = 8$; $2x - 3y - z = 12$.

Ans

✗ 1. (x, y, z) = (10, 5, 7)

✓ 2. (x, y, z) = (10, 5, −7)

✗ 3. (x, y, z) = (10, −5, −7)

✗ 4. (x, y, z) = (−10, 5, 7)

Q.95 **A train accelerates uniformly from 10 meters per second to 30 meters per second in 4 seconds. What is its acceleration?**

Ans

✗ 1. 8 meters per second squared

✓ 2. 5 meters per second squared

✗ 3. 2 meters per second squared

✗ 4. 10 meters per second squared

Q.96 **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?**
77 A 11 C 17 B 13 D 72 =?

Ans

✓ 1. 156

✗ 2. 174

✗ 3. 160

✗ 4. 168

Q.97 **Which Constitutional Amendment made it obligatory for the President of India to act only on the advice of the Council of Ministers?**

Ans

✗ 1. 49^{th} Amendment

✓ 2. 42^{nd} Amendment

✗ 3. 24^{th} Amendment

✗ 4. 52^{nd} Amendment

Q.98 **In November 2025, the Prime Minister of India launched several cutting-edge innovations at the Emerging Science, Technology & Innovation Conclave (ESTIC) 2025. Which of the following was the world's first humanised CAR-T cell therapy launched by the PM?**

Ans

✓ 1. NexCAR19

✗ 2. CARStriker

✗ 3. ImmunoCAR

✗ 4. T-CellX

Q.99 **During the Mahatma Gandhi-led phase of the freedom movement, which event triggered the withdrawal of the Non-Cooperation Movement in February 1922?**

Ans

✗ 1. Simon Commission's arrival

✓ 2. Chauri Chaura incident

✗ 3. Salt March at Dandi

✗ 4. Jallianwala Bagh Massacre

Q.100 The radius of a circle is 13 cm and the length of one of its chords is 22 cm. Find the distance of the chord from the center (use $\sqrt{3} = 1.7$)

Ans

✗ 1. 7.2 cm

✓ 2. 6.8 cm

✗ 3. 8.7 cm

✗ 4. 5.4 cm

"