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 **Which Viceroy of India was associated with the Cabinet Mission Plan?**

Ans A). Lord Wavell B). Lord Linlithgow C). Lord Irwin D). Lord Mountbatten

Correct Answer: A

Q.2 **When white light passes through a prism, it splits into a spectrum of colours. Which factor primarily determines the order of these colours?**

Ans A). The geometric shape of the prism B). The variation in refractive index for different wavelength C). The width of the white light beam D). The angle at which the white light enters the prism

Correct Answer: B

Q.3 **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 A). It will be twice as much as before B). It will remain the same as before C). It will be four times greater than before D). It will be half as much as before

Correct Answer: B

Q.4 **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 A). 62 B). 59.7 C). 58 D). 58.5

Correct Answer: D

Q.5 **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 A). Increase by 10% B). Decrease by 25% C). Decrease by 20% D). Increase by 30%

Correct Answer: B

Q.6 **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 A). DJ-AF B). KN-EI C). MP-GK D). IL-CG

Correct Answer: A

Q.7 **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 A). Three B). Four C). One D). Two

Correct Answer: D

Q.8 **Who serves as the Chairperson of the National Disaster Management Authority (NDMA) as per the Disaster Management Act, 2005?**

Ans A). Chairperson, NITI Aayog B). Cabinet Secretary C). Union Home Minister D). Prime Minister of India

Correct Answer: D

Q.9 Find the value of $\frac{1}{\cos^2 80^\circ} - \tan^2 80^\circ$.

Ans A). $\cot^2 40^\circ$ B). 1 C). 0 D). $\cot^2 160^\circ$

Correct Answer: B

Q.10 **Which of the following is a quantitative tool of monetary policy used by the Reserve Bank of India?**

Ans A). Budget B). Statutory Liquidity Ratio C). Direct Action D). Moral Suasion

Correct Answer: B

Q.11 **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 A). 38 B). 40 C). 37 D). 39

Correct Answer: D

Q.12 **Which of the following accurately describes the main function of xylem vessels in complex permanent tissue?**

Ans A). Transporting water and minerals upward B). Providing only plant support C). Transporting prepared food downward D). Storing resins and latex

Correct Answer: A

Q.13 **The revised Delegation of Financial Powers for Defence Services, released in June 2026, was mainly aimed at strengthening which aspect of defence administration?**

Ans A). Civilian control over sports bodies B). Operational efficiency of field commanders C). Recruitment rules for Agniveers D). Foreign procurement through single vendors

Correct Answer: B

Q.14 **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 A). # = JGM, % = NKR B). # = JGN, % = NLR C). # = JGN, % = NKR D). # = JGN, % = NKS

Correct Answer: C

Q.15 **Evaluate: 88 − {7 − (−48) ÷ (−12)}**

Ans A). 85 B). 86 C). 84 D). 83

Correct Answer: A

Q.16 **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 A). 35th B). 36th C). 37th D). 34th

Correct Answer: C

Q.17 **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 A). 64.13% B). 64.16% C). 65.69% D). 65.56%

Correct Answer: B

Q.18 **Which structural feature enables arteries to withstand high blood pressure?**

Ans A). Valves to stop backflow B). Thin, elastic walls C). One-cell thick walls D). Thick, elastic walls

Correct Answer: D

Q.19 **Which of the following statements about the atomic number is CORRECT?**

Ans A). Atomic number is the sum of protons and neutrons in an atom. B). Atomic number is always greater than the mass number. C). Atomic number determines the number of electrons in a neutral atom. D). Atomic number changes when an atom loses or gains electrons.

Correct Answer: C

Q.20 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 A). ₹20,502 B). ₹20,498 C). ₹20,503 D). ₹20,500

Correct Answer: D

Q.21 Three resistors 18 Ω, 28 Ω and 36 Ω are connected in parallel. The equivalent resistance is _____.

Ans A). 8.40 Ω B). 27.33 Ω C). 82.00 Ω D). 8.20 Ω

Correct Answer: A

Q.22 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 A). 22 B). 33 C). 44 D). 11

Correct Answer: D

Q.23 Article 21 of the Constitution of India is related to which right?

Ans A). Right to Education B). Protection of Life and Personal Liberty C). Right to Freedom of Religion D). Right to Equality

Correct Answer: B

Q.24 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 A). A neutral substance B). An acid C). A base D). A salt

Correct Answer: B

Q.25 Sachin invested ₹45000 at 4% per annum for 1 year at compound interest, compounded half-yearly. The amount received by him is:

Ans A). ₹46865 B). ₹46818 C). ₹46055 D). ₹47784

Correct Answer: B

Q.26 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 A). KWHAD B). K©HAD C). KWHWD D). KWH©D

Correct Answer: D

Q.27 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 A). ₹1,700 B). ₹1,750 C). ₹1,600 D). ₹1,800

Correct Answer: A

Q.28 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 A). ₹23,320 B). ₹23,900 C). ₹22,500 D). ₹23,200

Correct Answer: D

Q.29 The release of a mature egg every month from an ovary in human females is called _____.

Ans A). Ovulation B). Implantation C). Menstruation D). Fertilization

Correct Answer: A

Q.30 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 A). 7,313 B). 7,263 C). 7,363 D). 7,413

Correct Answer: D

Q.31 Which of the following compounds can undergo an addition reaction, and what feature of its structure makes this possible?

Ans A). Ethene; Because it contains a double bond B). Methanoic acid; Because it contains a carboxylic group
C). Ethanol; Because it has a hydroxyl group D). Propane; Because it contains only single bonds

Correct Answer: A

Q.32 **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 A). The force required by the robot becomes four times as large as before

B). The force required by the robot becomes twice as large as before C). The force required by the robot becomes half as large as before

D). The force required by the robot remains unchanged

Correct Answer: B

Q.33 **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 A). Data in statement I alone is sufficient to answer the question while data in statement II is not.

B). Data in statement II alone is sufficient to answer the question while data in statement I is not.

C). Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

D). Data in both statements I and II together are NOT sufficient to answer the question.

Correct Answer: C

Q.34 **The diagonals of a rhombus shaped field are 138 m and 184 m long. What is the perimeter (in m) of the field?**

Ans A). 445 B). 465 C). 460 D). 479

Correct Answer: C

Q.35 If $\sec^2\alpha + \tan^2\alpha = \frac{5}{3}$, what is the value of $\tan 2\alpha$?

Ans A). 0 B). ± 1 C). $\pm\sqrt{3}$ D). $\pm\frac{1}{\sqrt{3}}$

Correct Answer: C

Q.36 **Which statement best illustrates the Law of Constant Proportions in a chemical compound?**

Ans A). Copper sulfate may have different amounts of copper and sulfur. B). Salt can have changing ratios of sodium and chlorine.

C). Air contains varying amounts of gases based on location. D). Water always contains hydrogen and oxygen in a fixed ratio by mass.

Correct Answer: D

Q.37 **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 A). 97 B). 94 C). 98 D). 96

Correct Answer: B

Q.38 **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 A). 15 B). 17 C). 20 D). 12

Correct Answer: A

Q.39 **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 A). 200 B). 300 C). 125 D). 100

Correct Answer: B

Q.40 **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 A). Less work is done during horizontal motion because the object is not lifted.

B). More work is done during horizontal motion because the displacement is greater.

C). More work is done during lifting because it is against gravity. D). Equal work is done in both cases because the applied force is the same.

Correct Answer: B

Q.41 **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 A). Germany B). Sweden C). Switzerland D). Austria

Correct Answer: A

Q.42 **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 A). 72% B). 75% C). 73% D). 76%

Correct Answer: B

Q.43 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 A). $2\frac{114}{143}$ B). 1 C). $5\frac{13}{125}$ D). $1\frac{7}{60}$

Correct Answer: A

Q.44 **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 A). 900 m^2 B). 729 m^2 C). 1024 m^2 D). 625 m^2

Correct Answer: C

Q.45 **The marshy, forested Terai belt lying south of the Bhabar is well known for hosting which national park?**

Ans A). Dudhwa National Park B). Gir National Park C). Kaziranga National Park D). Ranthambore National Park

Correct Answer: A

Q.46 **The older alluvial tract of the Northern Plains, which forms terrace-like features above the floodplain, contains calcareous lime concretions locally called _____.**

Ans A). Bhur B). Kankar C). Reh D). Kallar

Correct Answer: B

Q.47 **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 A). One B). Three C). Zero D). Two

Correct Answer: C

Q.48 **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 A). Four B). Three C). One D). Two

Correct Answer: B

Q.49 **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 A). 4 : 5 B). 3 : 17 C). 5 : 14 D). 2 : 15

Correct Answer: B

Q.50 **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 A). 8 cm B). 4 cm C). 6 cm D). 5 cm

Correct Answer: D

Q.51 **What should come in place of '?' in the given series based on the English alphabetical order?**
LIF, SPM, ZWT, GDA, ?

Ans A). OLI B). NKH C). OKH D). NJI

Correct Answer: B

Q.52 **In which structure does the digestion of complex substances into simpler ones occur in Amoeba?**

Ans A). Inside the food-vacuole B). In the cytoplasm directly C). At the cell membrane D). Within the nucleus

Correct Answer: A

Q.53 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 A). 25 B). 22 C). 20 D). 27

Correct Answer: C

Q.54 **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 A). Fourth Five-Year Plan B). Second Five-Year Plan C). Third Five-Year Plan D). Eighth Five-Year Plan

Correct Answer: D

Q.55 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 A). -4 B). -15 C). -5 D). -3

Correct Answer: D

Q.56 **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 A). 8 km B). 9 km C). 11 km D). 10 km

Correct Answer: B

Q.57 **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 A). 3.60 B). 4.25 C). 2.83 D). 3.83

Correct Answer: D

Q.58 **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 A). Father's brother's son B). Father's sister's son C). Mother's sister's son D). Mother's brother's son

Correct Answer: D

Q.59 **If the molecular mass of a diatomic element X_2 is 70 u, the atomic mass of X is:**

Ans A). 35 u B). 17.5 u C). 140 u D). 70 u

Correct Answer: A

Q.60 **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 A). gold B). zinc C). aluminium D). copper

Correct Answer: D

Q.61 **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 A). Daughter's husband B). Father's father C). Mother's father D). Wife's father

Correct Answer: C

Q.62 **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 A). MXP : KZT B). KKJ : IIM C). LHO : JFS D). JMN : HLR

Correct Answer: C

Q.63 **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 A). 3 meters per second B). 7 meters per second C). 16 meters per second D). 12 meters per second

Correct Answer: D

Q.64 **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 A). 182 B). 195 C). 163 D). 174

Correct Answer: A

Q.65 **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 A). py B). vj C). kj D). cf

Correct Answer: A

Q.66 **What should come in place of the question mark (?) in the given series?**

17 28 50 83 127 ?

Ans A). 193 B). 182 C). 188 D). 199

Correct Answer: B

Q.67 **Homologous series have the same:**

Ans A). General formula B). Molecular mass C). Molecular formula D). Number of carbon atoms

Correct Answer: A

Q.68 **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 A). Three B). Zero C). Two D). One

Correct Answer: B

Q.69 **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 A). 4500 B). 4600 C). 4200 D). 4400

Correct Answer: A

Q.70 **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 A). 24 km/h B). 36 km/h C). 28 km/h D). 32 km/h

Correct Answer: C

Q.71 **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 A). 135 J B). 175 J C). 169 J D). 187 J

Correct Answer: D

Q.72 **What happens when a nonbiodegradable substance remains on earth for a longer period?**

Ans A). Causes pollution & harms the members of ecosystem B). Enhances the soil nutrition & promotes environment health
C). Improves the quality of life of nearby living animals D). Promote the water cycle of environment

Correct Answer: A

Q.73 **What happens to a ray of light when it passes from air into a glass convex lens?**

Ans A). It continues in a straight line without bending B). It reflects back into the air C). It bends towards the normal as it enters the lens
D). It bends away from the normal as it enters the lens

Correct Answer: C

Q.74 **Simplify the following.**

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

Ans A). 33 B). 40 C). 29 D). 30

Correct Answer: D

Q.75 **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 A). 7 B). 8 C). 6 D). 10

Correct Answer: A

Q.76 **Why does the inner lining of the uterus thicken each month during a woman's reproductive years?**

Ans A). To support sperm movement through the uterus B). To trigger the release of reproductive hormones
C). To prepare for possible implantation of a fertilized egg D). To assist the ovary in releasing mature eggs

Correct Answer: C

Q.77 **In 2026, AIKosh was highlighted in India's AI governance and innovation ecosystem. What is AIKosh mainly associated with?**

Ans A). Cybercrime police stations B). Satellite-launch authorisation C). Defence procurement contracts D). AI datasets and sectoral models

Correct Answer: D

Q.78 **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 A). 7 B). 4 C). 5 D). 8

Correct Answer: B

Q.79 **Which of the following organisms can synthesize their own food using sunlight and chlorophyll?**

Ans A). Green plants B). Omnivores C). Fungi D). Herbivores

Correct Answer: A

Q.80 **If the object distance is negative in the mirror formula, what does this indicate about the object's position?**

Ans A). The object is behind the mirror B). The object is placed in front of the mirror C). The object is at the focal point
D). The object is at the center of curvature

Correct Answer: B

Q.81 **Which of the following leaders is correctly matched to the organization he founded?**

Ans A). Jyotirao Phule – Paramahansa Mandali B). M. G. Ranade – Brahmo Samaj C). Sir Syed Ahmed Khan – Aligarh Movement
D). Swami Vivekananda – Arya Samaj

Correct Answer: C

Q.82 **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 A). One B). Three C). Four D). Two

Correct Answer: B

Q.83 **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 A). 218 B). 216 C). 217 D). 215

Correct Answer: A

Q.84 **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 A). 13 B). 9 C). 21 D). 18

Correct Answer: B

Q.85 **Which Indian cricketer became the fourth Indian to surpass 20,000 international runs in December 2025?**

Ans A). Rohit Sharma B). Shikar Dhawan C). Sourav Ganguly D). Virat Kohli

Correct Answer: A

Q.86 **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 A). Thar Desert B). Eastern Himalayas C). Deccan Plateau D). Indo-Gangetic Plain

Correct Answer: C

Q.87 **Which of the following is NOT a duty of the Vice-President as the Chairman of the Rajya Sabha?**

Ans A). Maintaining order in the House B). Allowing members to speak C). Putting bills and motions to vote D). Casting a vote in every bill

Correct Answer: D

Q.88 **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 A). The drone pulls itself upward without interacting with the gas, so no reaction force is involved.

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

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

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

Correct Answer: B

Q.89 **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 A). 16 cm B). 18 cm C). 20 cm D). 24 cm

Correct Answer: C

Q.90 **Which symbol represents the element Oxygen in the periodic table?**

Ans A). H B). C C). N D). O

Correct Answer: D

Q.91 **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 A). 27.4 B). 28.6 C). 27.8 D). 28.8

Correct Answer: D

Q.92 **Rabindranath Tagore was awarded the Nobel Prize in Literature in which year?**

Ans A). 1919 B). 1917 C). 1915 D). 1913

Correct Answer: D

Q.93 **During which stage of the water cycle does water vapor change into liquid form, often leading to cloud formation?**

Ans A). Evaporation B). Condensation C). Transpiration D). Precipitation

Correct Answer: B

Q.94 **Why is the enrichment of ores necessary before extracting metals?**

Ans A). To convert the ore into a pure metal directly without further processing B). To mix the ore with impurities to increase its weight

C). To reduce the cost and energy required during metal extraction by removing impurities

D). To change the physical state of the ore from solid to liquid before extraction

Correct Answer: C

Q.95 **Why is a flower covered with a cloth bag during pollination experiments?**

Ans A). To accelerate the overall growth rate of the petals B). To shield the delicate plant from heavy wind and rain

C). To prevent unwanted pollen from reaching the flower D). To protect the growing plant from catching the disease

Correct Answer: C

Q.96 **The symbol Fe for iron is derived from:**

Ans A). the name of its ore called ferrate. B). France as it was found there for the first time. C). its Latin name ferrum. D). the colour of the iron.

Correct Answer: C

Q.97 **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 A). $1512\ cm^2$ B). $1712\ cm^2$ C). $1612\ cm^2$ D). $1812\ cm^2$

Correct Answer: A

Q.98 **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 A). 195 B). 237 C). 298 D). 156

Correct Answer: D

Q.99 **If 40% of a number is added to 120, then the result is the same number. 80% of the same number is:**

Ans A). 120 B). 140 C). 180 D). 160

Correct Answer: D

Q.100 **Which of the following explains why microwaves and radio waves contribute little to warming the Earth?**

Ans A). They carry very little energy B). They are blocked by clouds C). They are trapped by gases D). They are absorbed by ozone

Correct Answer: A

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