



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS
सीईएन - 05/25 - जेई, डीएमएस, सीएमए - CEN - 05/25 - JE, DMS, CMA



Test Date	19/02/2026
Test Time	4:30 PM - 6:00 PM
Subject	RRB JE DMS CMA

* 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.

Q.1 Each of C, D, E, F, X, Y and Z has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have exams before D. Only one person has exam after C. Only three people have exams between D and Z. Only one person has exam between X and Y. F has exam immediately before X. How many people have exam(s) between E and X?

Ans A). One B). Two C). Four D). Three

Correct Answer: B

Q.2 The LCM of $5^3 \times 8^2 \times 12$, $5^2 \times 12^2 \times 16$ and $8^3 \times 12^2 \times 16^2$ is:

Ans A). $221 \times 32 \times 53$ B). $219 \times 32 \times 53$ C). $220 \times 32 \times 53$ D). $222 \times 32 \times 53$

Correct Answer: A

Q.3 Find the discriminant of the equation $\frac{x-3}{x-4} + \frac{x-6}{x-5} = \frac{5}{2}$.

Ans A). -6 B). 6 C). 7 D). -7

Correct Answer: D

Q.4 Meena, Sunita, Kavita, Rina and Priti have different heights. Only two people are shorter than Kavita. Rina is taller than Priti but shorter than Sunita. Meena is the tallest. Who is the shortest?

Ans A). Sunita B). Rina C). Meena D). Priti

Correct Answer: D

Q.5 What does Snell's law of refraction state about the ratio of the sine of the angle of incidence to the sine of the angle of refraction for a given colour and pair of media?

Ans A). It varies with the normal. B). It depends on the type of mirror. C). It remains constant. D). It changes with the angle of incidence.

Correct Answer: C

Q.6 What is the volume (in cm^3) of a solid sphere whose radius is 2.1 cm (rounded off to two decimal places)? (Use $\pi = \frac{22}{7}$)

Ans A). 36.80 B). 38.81 C). 32.80 D). 34.81

Correct Answer: B

Q.7 Kartik starts from Point A and drives 11 km towards east. He then takes a right turn, drives 5 km, turns right and drives 14 km. He then takes a right turn and drives 11 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again?

(All turns are 90 degree turns only unless specified.)

Ans A). 7 km to the south B). 7 km to the north C). 6 km to the north D). 6 km to the south

Correct Answer: D

Q.8 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its 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.)

(24, 8, 96)
(28, 7, 98)

Ans A). (48, 8, 144) B). (52, 4, 102) C). (44, 6, 134) D). (32, 6, 96)

Correct Answer: D

Q.9 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) D K & Ω # E S Y C + * A B @ R T % U \$ £ Q G (Right)

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

Ans A). 3 B). 5 C). 4 D). 6

Correct Answer: C

Q.10 An individual who is not a member of either House of Parliament may be appointed to the Council of Ministers; however, they must become a member of either House within a specified time frame of:

Ans A). 03 Months B). 09 Months C). 12 Months D). 06 Months

Correct Answer: D

Q.11 A scientist wants to demonstrate that dispersion depends on wavelength. She shines monochromatic red light through a prism. What does she observe and why?

Ans A). Only a single red ray emerges; no spectrum forms because there is only one wavelength B). Red light is absorbed, so nothing emerges
C). Multiple red rays emerge, each at a different angle D). A full spectrum appears, showing all colors

Correct Answer: A

Q.12 In April 2025, which two Indian cricketers were featured in the Wisden 2025 honours list?

Ans A). Ravichandran Ashwin and Jemimah Rodrigues B). Ravindra Jadeja and Harmanpreet Kaur C). Rohit Sharma and Renuka Thakur
D). Jasprit Bumrah and Smriti Mandhana

Correct Answer: D

Q.13 Water flows at the rate of 10 m/min from a cylindrical pipe 6 mm in diameter. How long will it take to fill up a conical vessel whose diameter at the base is 60 cm and depth 21 cm?

Ans A). 1 hour, 12 minutes B). 1 hour, 6 minutes C). 1 hour, 10 minutes D). 1 hour, 20 minutes

Correct Answer: C

Q.14 Which crop should a farmer consider for cultivation if he wants to increase protein content in his harvest?

Ans A). Cereals B). Oilseeds C). Pulses D). Vegetables and spices

Correct Answer: C

Q.15 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' and
A # B means 'A is the daughter of B'.

How is E related to J if 'E % V + T # H % J'?

Ans A). Daughter's son B). Wife's father C). Daughter's husband D). Mother's father

Correct Answer: D

Q.16 In January 2025, India became the fourth nation in the world to successfully dock two satellites in space. What was the name of this mission?

Ans A). Mars Orbiter B). Chandrayaan-3 C). Gaganyaan D). SpaDeX

Correct Answer: D

Q.17 A student observes that a compass needle deflects when brought near a current-carrying wire. Using your understanding of magnetic fields, explain why this happens.

Ans A). A current-carrying wire creates a magnetic field that exerts a force on the compass needle.
B). The wire causes a gravitational effect moving the needle. C). The wire heats up, causing air currents to move the needle.
D). The wire produces an electric force that acts on the compass needle.

Correct Answer: A

Q.18 An electric iron uses a heating element made of an alloy instead of pure metal. Which property of alloys justifies this choice?

Ans A). Alloys have higher resistivity and do not oxidise readily at high temperatures B). Alloys are cheaper C). Alloys are better conductors
D). Alloys have lower resistivity

Correct Answer: A

Q.19 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

SWC67, XBH56, CGM45, HLR34, ?

Ans A). MQW23 B). MOW23 C). NQW23 D). MQX23

Correct Answer: A

Q.20 The sum of the squares of two consecutive odd natural numbers is 3530. The sum of the numbers is:

Ans A). 84 B). 80 C). 100 D). 98

Correct Answer: A

Q.21 If x varies directly as y and inversely as z , and $x = 16$ when $y = 40$ and $z = 3$, then find x when $y = 50$ and $z = 6$.

Ans A). 12 B). 10 C). 16 D). 15

Correct Answer: B

Q.22 Assertion (A): If the median of the given data (provided in ascending order): 26, 29, 42, 53, x , $x + 2$, 70, 75, 82, 93, is 60 then the value of x is 59

Reason (R): When the number of observations (n) is even the median is the value of the $\frac{1}{2}$ (sum of middle terms) provided data is arranged in ascending order.

Ans A). Assertion (A) is true but Reason (R) is false. B). Both Assertion (A) and Reason are true and R is the correct explanation of A.
C). Both Assertion (A) and Reason are true and R is not the correct explanation of A. D). Assertion (A) is false but Reason (R) is true.

Correct Answer: B

Q.23 If Chandu covers 285 km in a boat in 45 hours against the stream while he takes 18 hours to cover the same distance downstream, then find the speed of the stream.

Ans A). 4.75 km/h B). 5.78 km/h C). 5.16 km/h D). 1.39 km/h

Correct Answer: A

Q.24 P and Q together can fill a cistern with water in 24 hours. If P alone can fill the cistern with water in 96 hours, then in how many hours will Q alone fill three-fourth of the same cistern with water?

Ans A). 49 B). 25 C). 24 D). 48

Correct Answer: C

Q.25 The marks scored by 10 students are given below.

12, 12, 20, 12, 12, 17, 17, 18, 18, 13

The mode of the data is:

Ans A). 12 B). 20 C). 17 D). 15

Correct Answer: A

Q.26 Which of the following is the correct relationship between the number of carbon and hydrogen atoms in alkenes?

Ans A). C_nH_{2n+4} B). C_nH_{2n+2} C). C_nH_{2n-2} D). C_nH_{2n}

Correct Answer: D

Q.27 Which process is used to convert zinc carbonate ore into zinc oxide before reduction?

Ans A). Heating strongly in limited air B). Heating with aluminium powder C). Heating with carbon powder D). Heating strongly in excess air

Correct Answer: A

Q.28 Seven people, F, J, M, L, R, V and X, are sitting in a row, facing north.

Only two people sit between F and L. Only M sits to the right of J. Only one person sits between L and J. R sits at some place to the right of V but at some place to the left of X. How many people sit to the left of R?

Ans A). 4 B). 1 C). 3 D). 2

Correct Answer: D

Q.29 Select the correct option regarding the following two statements labelled Assertion (A) and Reason (R).

Assertion (A): Excess accumulation of biodegradable waste can also create environmental problems.

Reason (R): Slow decomposition may lead to foul smell and spread of disease.

- Ans A). Both A and R are true, and R is the correct explanation of A
B). A is true, but R is false
C). Both A and R are true, but R is not the correct explanation of A
D). A is false, but R is true

Correct Answer: A

Q.30 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(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.)
21, 274
34, 443

- Ans A). 27, 351
B). 26, 339
C). 24, 312
D). 29, 376

Correct Answer: B

Q.31 A bi-convex lens forms a real, inverted image twice as large as the object. Where is the object located relative to the lens?

- Ans A). Between one focal length and twice the focal length from the lens
B). Beyond twice the focal length from the lens
C). At twice the focal length from the lens
D). At the focal length from the lens

Correct Answer: A

Q.32 What is the rank of the Indian Air Force as per the Global Firepower Index, 2025?

- Ans A). Fourth
B). Fifth
C). Seventh
D). Sixth

Correct Answer: A

Q.33 Each of P, Q, R, S, T, U and V has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week.
Only five people have exams after T. Only five people have exams before R. U has exam immediately before P. V has exam before U but on someday after S.
How many people have exams between V and Q?

- Ans A). One
B). Four
C). Three
D). Two

Correct Answer: C

Q.34 Which peak marks the north-western end of the Great Himalaya?

- Ans A). Nanga Parbat
B). Mount Everest
C). Kanchenjunga
D). Namcha Barwa

Correct Answer: A

Q.35 Why is mercury obtained from cinnabar ore through two heating steps instead of direct reduction?

- Ans A). Mercury sulphide must first change into oxide
B). Mercury metal reacts with oxygen on heating
C). Mercury oxide forms only in absence of air
D). Mercury sulphide melts before decomposition

Correct Answer: A

Q.36 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (All numbers are single-digit numbers only)

(Left) 2 # @ 1 4 ^ 8 9 + 2 ? \$ 3 ^ 7 * 9 8 (Right)

How many such symbols are there, each of which is immediately preceded by a number and also immediately followed by another number?

- Ans A). Five
B). Four
C). Three
D). Two

Correct Answer: B

Q.37 India is ranked at what position among 142 Countries, in the World Justice Project(WJP) Rule of Law Index 2024, released on October 2024?

- Ans A). 14th
B). 10th
C). 79th
D). 52nd

Correct Answer: C

Q.38 What should come in place of '?' in the given series?

115, 119, 127, 139, 155, ?

- Ans A). 171
B). 173
C). 177
D). 175

Correct Answer: D

Q.39 A bright metal turns dull over time due to oxidation. What is this process called?

- Ans A). Corrosion
B). Sublimation
C). Filtration
D). Evaporation

Correct Answer: A

Q.40 Mr. Y travelled 438 km, 820 km and 972 km at a speed of 6 km/hr, 20 km/hr and 27 km/hr, respectively. Find his average speed in km/hr.

- Ans A). $14\frac{13}{15}$ B). $14\frac{11}{15}$ C). $14\frac{14}{15}$ D). $14\frac{8}{15}$

Correct Answer: A

Q.41 A and B can complete a work in 15 days and 10 days, respectively. They started doing the work together but after 4 days, B had to leave, and A completed the remaining work alone. The entire work was completed in _____ days.

- Ans A). 10 B). 9 C). 5 D). 6

Correct Answer: B

Q.42 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and decide the appropriate answer.

Question: Ax, Bk, Cq, Dp and Ev are sitting around a circular table, facing the centre. Who sits to the immediate left of Cq?

Statements:

(I) Bk sits second to the left of Ev. Dp sits second to the right of Ev.

(II) Ax sits second to the right of Cq. Dp sits to the immediate left of Bk.

- Ans A). Data in Statement I alone is sufficient to answer the question, while data in statement II is not.
B). Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
C). Data in statements I and II together are not sufficient to answer the question.
D). Data in Statement II alone is sufficient to answer the question, while data in statement I is not.

Correct Answer: D

Q.43 Baking soda (NaHCO_3) is commonly used in cooking. Which of the following statements about it is correct?

- Ans A). It is a strong base that turns red litmus blue. B). It is acidic in nature and has $\text{pH} < 7$. C). It does not react with water or acids.
D). It reacts with acids to release carbon dioxide gas.

Correct Answer: D

Q.44 A large central vacuole is a characteristic feature of which of the following cells?

- Ans A). Protozoan cells B). Bacterial cells C). Plant cells D). Animal cells

Correct Answer: C

Q.45 What should come in place of '?' in the given series?

250 200 160 130 ?

- Ans A). 100 B). 120 C). 90 D). 110

Correct Answer: D

Q.46 What will come in place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$12 \div 3 + 32 \times 4 - 5 = ? + 3$

- Ans A). 36 B). 34 C). 32 D). 38

Correct Answer: A

Q.47 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All chocolates are juices.

All juices are medicines.

No juice is a biscuit.

Conclusions:

(I): No medicine is a biscuit.

(II): No chocolate is a biscuit.

- Ans A). Both conclusions (I) and (II) follow. B). Only conclusion (I) follows. C). Neither conclusion (I) nor (II) follows.
D). Only conclusion (II) follows.

Correct Answer: D

Q.48 If $6\sin Y + \cos Y = \sqrt{5}\sin Y$, then find the value of $\tan Y$.

- Ans A). $\frac{-6 - \sqrt{5}}{41}$ B). $\frac{-6 - \sqrt{5}}{31}$ C). $\frac{-7 - \sqrt{5}}{31}$ D). $\frac{-6 - \sqrt{5}}{36}$

Correct Answer: B

Q.49 If 15% of A is equal to 20% of B and 10% of B is equal to 25% of C, what is the ratio of A : B : C?

Ans A). 8:7:6 B). 20:15:6 C). 12:9:7 D). 22:17:11

Correct Answer: B

Q.50 The average of the first 18 positive multiples of 8 is:

Ans A). 76 B). 18 C). 8 D). 72

Correct Answer: A

Q.51 QSTV is related to ZBCE in a certain way based on the English alphabetical order. In the same way, VXYA is related to EGHJ. To which of the following is XZAC related, following the same logic?

Ans A). GHIL B). GILL C). GJIR D). GIJL

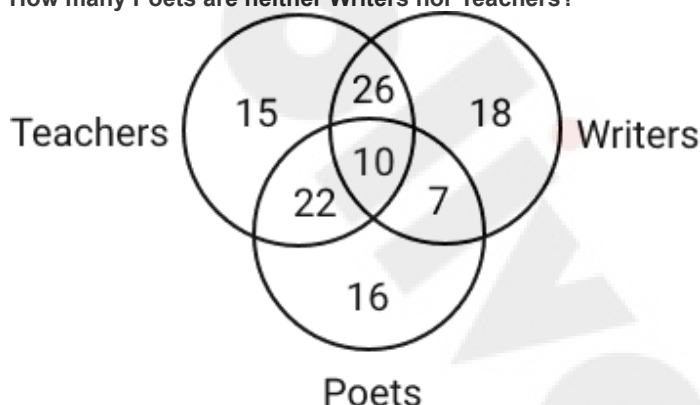
Correct Answer: D

Q.52 Which of the following is the main reason for the flatness of the Great Indian Plains?

Ans A). Wind erosion B). River deposition C). Tectonic uplift D). Glacial erosion

Correct Answer: B

Q.53 Study the given Venn diagram carefully and answer the question. The numbers in different sections indicate the number of persons. (NOTE: You have to take the given data to be true even if they seem to be at variance from commonly known facts.) How many Poets are neither Writers nor Teachers?



Ans A). 16 B). 22 C). 15 D). 10

Correct Answer: A

Q.54 What is the main purpose of giving vaccinations to farm animals?

Ans A). To protect them from major viral and bacterial diseases B). To prevent attacks from external parasites C). To increase milk production D). To improve the quality of animal feed

Correct Answer: A

Q.55 Refer to the two statements given below and choose the CORRECT option.

Statement A: Milch animals are reared primarily for the production of milk.

Statement B: Milch animals are mainly used for ploughing agricultural fields.

Ans A). Statement A is correct but B is incorrect. B). Both statements A and B are incorrect. C). Statement A is incorrect but B is correct. D). Both statements A and B are correct.

Correct Answer: A

Q.56 The price of fuel decreases by 35%, 10% and 50% in three successive months, but increases by 40% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?

Ans A). Increases by 64.45% B). Increases by 56.75% C). Decreases by 59.05% D). Decreases by 63.97%

Correct Answer: C

Q.57 What key difference set the Kheda Satyagraha apart from the Ahmedabad Mill Strike during the phase of heightened nationalist activity?

Ans A). Emphasis on constitutional and legislative demands B). Mobilisation of rural peasants versus organisation of urban workers C). Reliance on petitions and appeals to colonial authorities D). Common leadership under the same nationalist figures

Correct Answer: B

Q.58 When an object is in free fall near the Earth's surface, which of the following physical quantities remains constant if air resistance is neglected?

Ans A). Energy remains constant. B). Momentum remains constant. C). Acceleration due to gravity remains constant. D). Velocity remains constant.

Correct Answer: C

Q.59 Based on the alphabetical order, three of the following four 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). USO B). DBX C). WUQ D). MLG

Correct Answer: D

Q.60 QL 2 is related to SG 16 in a certain way. In the same way, EI 6 is related to GD 20. To which of the following is PN 8 related, following the same logic?

Ans A). RI 22 B). UJ 23 C). YU 11 D). JI 12

Correct Answer: A

Q.61 If third proportional of 8 and 48 be x, then what is the value of x?

Ans A). 289 B). 286 C). 288 D). 291

Correct Answer: C

Q.62 A ball at rest is dropped from the top of a 20 m high building. Calculate the speed with which it hits the ground. (Take $g = 10 \text{ m/s}^2$)

Ans A). 40 m/s B). 14 m/s C). 10 m/s D). 20 m/s

Correct Answer: D

Q.63 The Indian dancer Guru Vempati Chinna Satyam was related to which dance form, for which he was honoured with the Padma Bhushan in 1998?

Ans A). Kuchipudi B). Mohiniyattam C). Manipuri D). Kathakali

Correct Answer: A

Q.64 Which type of spherical mirror has its reflecting surface curved inwards, facing towards the centre of the sphere?

Ans A). Convex mirror B). Plane mirror C). Parabolic mirror D). Concave mirror

Correct Answer: D

Q.65 In a certain code,
'great people gathering' is coded as 'sc nj gy'
'great minds together' is coded as 'xg jp sc'
'read people minds' is coded as 'nj ys jp'
(all the codes are two letter coded only)
What is the code for 'together gathering'?

Ans A). sc ys B). gy ys C). gy jp D). xg gy

Correct Answer: D

Q.66 This question is based on the following words.

OUT USE TUG RIP

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 the English alphabetical order?

Ans A). 11 B). 12 C). 14 D). 10

Correct Answer: A

Q.67 What is the correct sequence in which the oath of office binds a Union Minister?

Ans A). Constitution → Justice → Integrity → Sovereignty
B). Integrity → Constitution → Sovereignty → Duty → Impartiality (justice without fear or favour)
C). Allegiance to the → Constitution, → Sovereignty and integrity → Faithful discharge of duties → Impartiality
D). Allegiance → Sovereignty → Duty and Impartiality → Faithful discharge

Correct Answer: C

Q.68 Refer to the two statements given below and choose the CORRECT option.

Statement A: Poor storage conditions result in weight loss and discolouration of grains.

Statement B: Poor storage conditions enhance seed viability and grain texture.

Ans A). Statement A is incorrect but B is correct. B). Both statements A and B are correct. C). Both statements A and B are incorrect.
D). Statement A is correct but B is incorrect.

Correct Answer: D

Q.69 A ball is placed at the edge of a table and left undisturbed. Which form of energy does the ball primarily possess due to its position, and what can happen if it is pushed off the table?

Ans A). The ball possesses chemical energy and will release it when it falls. B). The ball possesses elastic potential energy due to its shape.
C). The ball possesses potential energy and will convert it to kinetic energy as it falls.
D). The ball possesses kinetic energy and will remain at rest unless a force acts on it.

Correct Answer: C

Q.70 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(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.)
36, 289
58, 465

Ans A). 32, 256 B). 19, 183 C). 23, 185 D). 21, 168

Correct Answer: C

Q.71 Iron nails are coated with zinc to prevent rusting. Even if the zinc layer is scratched, rusting does not occur because —

Ans A). Zinc acts as a sacrificial anode and corrodes instead of iron. B). Zinc reacts with moisture to form a protective film
C). Iron becomes stainless in the presence of zinc. D). Zinc forms a hard oxide layer.

Correct Answer: A

Q.72 In what ratio must a fruit vendor mix two varieties of mangoes costing ₹60/kg and ₹68.40/kg, so that by selling the mixed variety of mangoes at ₹79.80/kg, he may gain 18.75%?

Ans A). 7 : 3 B). 6 : 1 C). 3 : 7 D). 1 : 6

Correct Answer: D

Q.73 The nucleus contains chromosomes, which appear as rod-shaped structures only when the cell is about to divide. These chromosomes are composed of ____.

Ans A). RNA and lipids B). Amino acids and carbohydrates C). DNA and proteins D). Glucose and enzymes

Correct Answer: C

Q.74 A dealer purchases 1,200 eggs at ₹4.50 each. During transit, 8% of the eggs break. The remaining eggs are sold at ₹6.00 each. Find the overall profit percentage.

Ans A). $22\frac{1}{3}\%$ B). $21\frac{1}{3}\%$ C). $22\frac{2}{3}\%$ D). $21\frac{2}{3}\%$

Correct Answer: C

Q.75 Why are terrestrial food chains usually limited to 4–5 trophic levels?

Ans A). Plants produce less oxygen B). Energy available decreases at higher trophic levels C). Decomposers recycle all energy
D). Top predators eat less

Correct Answer: B

Q.76 By selling an article at 76% of its marked price, a trader makes a loss of 20%. What will be the profit percentage, if he sells it at 99% of its marked price?

Ans A). $1\frac{1}{19}\%$ B). $3\frac{3}{19}\%$ C). $4\frac{4}{19}\%$ D). $2\frac{2}{19}\%$

Correct Answer: C

Q.77 Match the following List-I (World Events) with List-II (Outcomes) and choose your answer from the code given below.

World Events (List -I) Outcome (List-II)

1. United Nations Conference on the Human Environment, 1972 i) Millennium Development Goals (MDG)
2. Brundtland Report, 1987 ii) Adoption of Sustainable Development Goals (SDGs)
3. UN Millennium Summit, 2000 iii) Environmental Movement
4. UN Summit, 2015 iv) The word 'Sustainable Development' was introduced

Ans A). 1(i), 2(iv), 3(iii), 4(ii) B). 1(i), 2(ii), 3(iii), 4(iv) C). 1(iii), 2(iv), 3(i), 4(ii) D). 1(i), 2(ii), 3(iv), 4(iii)

Correct Answer: C

Q.78 Who was honored with the Padma Shri in 2025 for preserving the traditional Tanglia weaving art?

Ans A). Parmar Lavjibhai Nagjibhai B). Vinayak Lohani C). Pawan Goenka D). Prashanth Prakash

Correct Answer: A

Q.79 Simplify: $\frac{4}{5} + \left(\frac{1}{1 + \frac{5}{8}} \right) - \frac{3}{5}$

Ans A). $\frac{48}{65}$ B). $\frac{58}{63}$ C). $\frac{53}{65}$ D). $\frac{60}{71}$

Correct Answer: C

Q.80 Which measurable quantity remains the same when a liquid is transferred between containers?

- Ans A). Volume of the liquid remains unchanged B). Density of the liquid always increases C). Mass of the liquid becomes zero
D). Shape of the liquid remains unchanged

Correct Answer: A

Q.81 During aerobic respiration, each pyruvate molecule is broken down to give _____ molecules of carbon dioxide.

- Ans A). Two B). Three C). Four D). One

Correct Answer: B

Q.82 The simplified value of $178 - 7 \times (3 + 17) + 22$ is:

- Ans A). 66 B). 58 C). 67 D). 60

Correct Answer: D

Q.83 The length of a cuboid is three times its height, and the breadth is twice the height. If the height is $(x^2 + 2)$ cm, find the lateral surface area of the cuboid at $x = 2$.

- Ans A). 360 cm² B). 420 cm² C). 300 cm² D). 240 cm²

Correct Answer: A

Q.84 A vending machine contains ₹1, 50 paise, and 25 paise coins. In one tray, the number of coins of these denominations is in the ratio 2:3:4, and their total value is ₹180. In another tray, the values of ₹1, 50 paise, and 25 paise coins are in the ratio 13:11:7, and the total number of coins in this tray is 378. How many 50-paise coins are there in total across both trays?

- Ans A). 251 B). 250 C). 252 D). 253

Correct Answer: C

Q.85 Compare the products of complete and incomplete combustion of methane:

- Ans A). Complete \rightarrow CO + H₂O; Incomplete \rightarrow CO₂ + H₂O B). Complete \rightarrow CO₂ + H₂O; Incomplete \rightarrow CO + H₂O
C). Complete \rightarrow CO₂ only; Incomplete \rightarrow H₂O only D). Complete \rightarrow CO + H₂O; Incomplete \rightarrow C + H₂O

Correct Answer: B

Q.86 In a certain code language,
A + B means 'A is the son of B'
A - B means 'A is the sister of B'
A x B means 'A is the wife of B'
A ÷ B means 'A is the father of B'

Based on the above, how is C related to G if 'C x S + D ÷ F - G'?

- Ans A). Daughter B). Wife C). Brother's wife D). Brother's daughter

Correct Answer: C

Q.87 Amit had invested same amount of sums at simple interest as well as compound interest, compounded annually. The time period of both the sums was 2 years and rate of interest too was the same 10% per annum. At the end, he found a difference of ₹45 in both the interests received. What were the sums (in ₹) invested in each case?

- Ans A). 3,600 B). 3,750 C). 4,500 D). 4,850

Correct Answer: C

Q.88 In a certain code,
'child plays game' is coded as 'ra so tu'
'adult plays work' is coded as 'ke so mi'
'game work activity' is coded as 'tu mi lo'

Q. What is the code for activity?

- Ans A). lo B). ke C). mi D). tu

Correct Answer: A

Q.89 Why do muscle cells sometimes respire anaerobically during heavy exercise?

- Ans A). Because the supply of oxygen is limited B). Because lactic acid is required C). Because the body wants to store energy
D). Because glucose is unavailable

Correct Answer: A

Q.90 Why does the temperature remain constant during melting of ice even on heating?

- Ans A). Heat energy converts directly into work B). Heat energy escapes from ice into the surroundings
C). Heat energy increases kinetic energy instantly D). Heat energy is used to overcome particle attraction

Correct Answer: D

Q.91 Which metal releases the most heat when reacting with excess hydrochloric acid?

- Ans A). Iron B). Nickel C). Zinc D). Magnesium

Correct Answer: D

Q.92 The Indian Home Rule League at Madras was founded by _____.

Ans A). Subhas Chandra Bose B). Annie Besant C). Mahatma Gandhi D). Bala Gangadhar Tilak

Correct Answer: B

Q.93 What is the remainder when (x^2-4x+7) is divided by $(x-2)$?

Ans A). 3 B). -1 C). 1 D). 7

Correct Answer: A

Q.94 Who was the Chairman of the 'Committee to Review Policy for Public Enterprises', set up by the Government of India in 1984?

Ans A). K. Kasturirangan B). Subimal Dutt C). S. S. Tarapore D). Arjun Sengupta

Correct Answer: D

Q.95 Mahesh has borrowed an amount of ₹420000 from a bank to start a business. How much simple interest (in ₹) will he pay at a rate of 6% per annum after 2 years?

Ans A). 50400 B). 51400 C). 53400 D). 49400

Correct Answer: A

Q.96 A car travels 120 meters north in 10 seconds and then instantly returns to its original position in the next 10 seconds. Which statement best describes the car's average velocity for the entire trip?

Ans A). The average velocity is zero because the displacement is zero.
B). The average velocity is 6 m/s because the total distance is 240 m in 20 seconds.
C). The average velocity is 12 m/s because the car covered 120 m in 10 seconds.
D). The average velocity is 12 m/s because the total time is 10 seconds.

Correct Answer: A

Q.97 The 'Middle-Income Trap' refers to _____.

Ans A). Struggle to attain high income status B). Over-reliance on foreign aid C). Exclusive focus on agriculture
D). Rapid transition to high-income status

Correct Answer: A

Q.98

The value of $\sqrt{\left(77 + \sqrt{\left(12 + \sqrt{\left(10 + \sqrt{\left(32 + \sqrt{(16)}\right)}\right)}\right)}\right)}$ is:

Ans A). 13 B). 8 C). 11 D). 9

Correct Answer: D

Q.99 Two circles, having their centres at A and at B, touch externally at a point M. From a point P on a tangent at M, tangents PQ and PR are drawn to the circles with points of contact Q and R, respectively. If AP = 13 cm and AM = 5 cm, find the value of PQ + PR - PM.

Ans A). 12 cm B). 10 cm C). 13 cm D). 14 cm

Correct Answer: A

Q.100 During a sale 50% of the goods are sold at 19% profit, 20% of the remaining goods are sold at 40% profit and the still remaining goods are sold at a loss of 25%. If there is an overall profit of x%, then what is the value of x?

Ans A). 2 B). 4 C). 5 D). 3.5

Correct Answer: D