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	9:00 AM - 10:30 AM
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.

Section : **RRB JE DMS CMA**

Q.1 **The base and the corresponding height of a parallelogram are 93 cm and 29 cm, respectively. The area of the parallelogram (in cm^2) is:**

Ans   ✗ 1. 2701

     ✓ 2. 2697

     ✗ 3. 2714

     ✗ 4. 2696

Q.2 **Simplify the following.**

$112 \div [16 \div 8 \times \{18 + 12 - (3 + 10 - (4 + 7))\}]$

Ans   ✗ 1. 3

     ✗ 2. 4

     ✗ 3. 11

     ✓ 4. 2

Q.3 *The quadratic equation whose roots are* $\dfrac{1}{\sqrt{2}}$ *and* $\dfrac{1}{\sqrt{2}}$ *is:*

Ans   ✓ 1. $2x^2 - (2\sqrt{2})x + 1 = 0$

     ✗ 2. $3x^2 - (2\sqrt{2})x - 1 = 0$

     ✗ 3. $2x^2 - (4\sqrt{2})x - 1 = 0$

     ✗ 4. $2x^2 + (2\sqrt{5})x + 1 = 0$

Q.4 **Sonora-64 and Lerma Rojo are high-yielding varieties (HYVs) of which crop introduced during the Green Revolution in India?**

Ans   ✗ 1. Rice

     ✗ 2. Barley

     ✓ 3. Wheat

     ✗ 4. Maize

Q.5 When methane (CH_4) burns completely in the presence of sufficient oxygen, which products are formed?

Ans
✗ 1. Carbon dioxide and carbon

✗ 2. Carbon and hydrogen

✔ 3. Carbon dioxide and water

✗ 4. Carbon monoxide and water

Q.6 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 carefully and decide the appropriate answer.

Five people, A, B, C, D and E, are sitting in a straight line facing north. Who sits to the immediate left of C?
I. B sits second from one of the extreme ends of the line. Only one person sits between B and C. D sits third to the right of C.
II. D sits to the immediate right of B. Only three people sit between D and A. E sits to the immediate right of C.

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 is NOT sufficient to answer the question

✗ 3. Data in both statements I and II together (and not statement I alone or statement II alone) is 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.7 Which of the following is NOT true regarding the Poona Pact of 1932?

Ans
✗ 1. Seats reserved for depressed classes increased in the legislatures.

✔ 2. Ambedkar refused to sign the pact.

✗ 3. It was accepted by the government.

✗ 4. It dropped the idea of separate electorates for depressed classes.

Q.8 How does the magnetic field strength at the center of a circular loop change if the current through the loop is doubled?

Ans
✔ 1. It becomes twice as large

✗ 2. It becomes four times as large

✗ 3. It becomes half as large

✗ 4. It remains unchanged

Q.9 When two aqueous solutions react inside a sealed flask and form products, what happens to the total mass of the system?

Ans
✗ 1. It fluctuates during reaction

✗ 2. It increases due to gas formation

✗ 3. It decreases due to precipitation

✔ 4. It remains unchanged throughout

Q.10 Which of the following metals is NOT refined by electrolytic refining?

Ans
✔ 1. sodium

✗ 2. copper

✗ 3. tin

✗ 4. zinc

Q.11 LKLJ is related to GFGE in a certain way based on the English alphabetical order. In the same way, NMNL is related to IHIG. To which of the following is QPQO related, following the same logic?

Ans
✗ 1. LJKJ
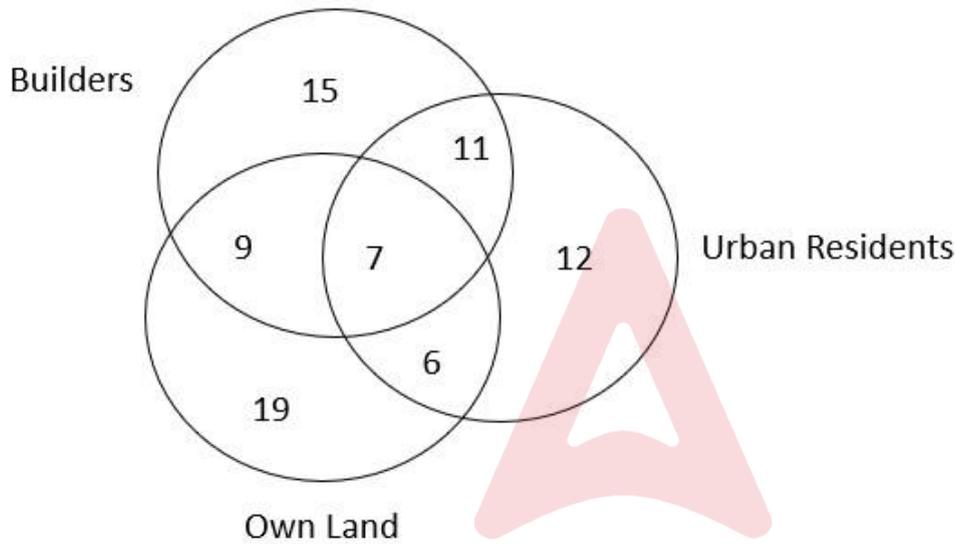
✔ 2. LKLJ

✗ 3. LKKJ

✗ 4. LLKQ

Q.12 In which year was the first national Census of India carried out during British India?

Ans   ✓ 1. 1871

   ✗ 2. 1901

   ✗ 3. 1891

   ✗ 4. 1851

Q.13 When a man pushes a wall but the wall does not move, what is the work done by the man on the wall?

Ans   ✓ 1. Zero work is done as there is no displacement of the wall.

   ✗ 2. Negative work is done as the wall resists the push.

   ✗ 3. Positive work is done as force is applied.

   ✗ 4. Maximum work is done as the man uses full effort.

Q.14 Study the given diagram carefully and answer the question that follows. 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 builders are urban residents and own land?

Ans   ✗ 1. 11

   ✗ 2. 6

   ✓ 3. 7

   ✗ 4. 9

Q.15 Coal is primarily formed from:

Ans   ✗ 1. Remains of animals preserved in rocks

   ✗ 2. Lava flows from volcanoes

   ✗ 3. Mineral deposits in the Earth

   ✓ 4. Layers of dead plants compressed over millions of years

Q.16 Mahesh has borrowed an amount of ₹4,40,000 from a bank to start a business. How much simple interest (in ₹) will he pay at a rate of 6% per annum after 4 years?

Ans   ✗ 1. 1,06,600

   ✓ 2. 1,05,600

   ✗ 3. 1,03,600

   ✗ 4. 1,04,600

Q.17 X people were given a contract for doing a piece of work in 32 days. 8 people did not turn up to work due to sickness, and the rest of the people completed the work in 40 days. What is the value of X?

Ans ✘ 1. 38

✘ 2. 42

✔ 3. 40

✘ 4. 44

Q.18 If a convex mirror forms a point-sized image at its focus, where is the object located?

Ans ✔ 1. At infinity

✘ 2. Between F and the pole

✘ 3. Between P and F

✘ 4. At the pole

Q.19 Why are cross-breeding programmes between indigenous and exotic poultry breeds undertaken?

Ans ✘ 1. To create hybrids with less attractive features

✘ 2. To create hybrids showing similarity with their ancestors

✔ 3. To develop new varieties with desirable traits

✘ 4. To increase only the egg size

Q.20 Systolic pressure is measured when the heart _____.

Ans ✘ 1. Stops beating

✘ 2. Fills with blood

✘ 3. Relaxes

✔ 4. Contracts

Q.21 What is the constitutional consequence if the Lok Sabha passes a no-confidence motion against the ruling government?

Ans ✘ 1. The Speaker of Lok Sabha is removed by the President

✘ 2. The government may continue without any change

✘ 3. Only the Prime Minister must submit resignation

✔ 4. The Council of Ministers is obligated to step down

Q.22 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 between T and R. S has exam on Wednesday. V has exam immediately after P but not on Saturday. Q has exam immediately before T.
How many people have exams between U and V?

Ans ✘ 1. One

✔ 2. Two

✘ 3. Three

✘ 4. Four

Q.23 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

NF – RJ – VN
MB – QF – UJ

Ans ✘ 1. TW – YZ – SY

✘ 2. RM – UT – PR

✔ 3. OG – SK – WO

✘ 4. HK – LN – FL

Q.24 Which cell organelle is responsible for the manufacture of lipids in the cell?

Ans ✗ 1. Rough Endoplasmic Reticulum

✗ 2. Golgi Apparatus

✗ 3. Mitochondria

✓ 4. Smooth Endoplasmic Reticulum

Q.25 Ajay spends 80% of his income. His income is increased by 30%, and his expenditure is increased by 10%. Find the percentage increase in his savings.

Ans ✗ 1. 105%

✗ 2. 100%

✗ 3. 90%

✓ 4. 110%

Q.26 Who was appointed as the Chairman of the Union Public Service Commission by President Droupadi Murmu in May 2025?

Ans ✓ 1. Dr. Ajay Kumar

✗ 2. Dr. Ajit Kumar

✗ 3. Dr. Alok Kumar

✗ 4. Dr. Anil Kumar

Q.27 Which enzyme initiates carbohydrate digestion in the human mouth?

Ans ✓ 1. Salivary amylase present in saliva

✗ 2. Pepsin secreted by gastric glands

✗ 3. Lipase secreted by liver

✗ 4. Trypsin released by pancreas

Q.28 Solve the following linear equations.

2x + 3y − 5z = 4,
x + 3y − 2z = 12,
2x + y − 3z = 5

Ans ✗ 1. $x = \dfrac{-43}{8}, y = \dfrac{-65}{8}, z = \dfrac{39}{8}$

✓ 2. $x = \dfrac{65}{8}, y = \dfrac{39}{8}, z = \dfrac{43}{8}$

✗ 3. $x = \dfrac{43}{8}, y = \dfrac{65}{8}, z = \dfrac{39}{8}$

✗ 4. $x = \dfrac{43}{8}, y = \dfrac{-65}{8}, z = \dfrac{-39}{8}$

Q.29 How did Mahatma Gandhi's views on untouchability shape the priorities of the Indian National Congress during the Gandhian phase?

Ans ✗ 1. Endorsing separate political electorates for communities

✓ 2. Making abolition of untouchability a central objective

✗ 3. Shifting primary focus toward agrarian economic reforms

✗ 4. Concentrating on political integration of princely states

Q.30 If $x = \sqrt[3]{512}$, $y = \sqrt[6]{64}$ and $z = 6^3 - 2 \times 10^2$, then $\sqrt[3]{10(x^2 + y^3 + z + 12)}$ is equal to:

Ans ✗ 1. 40

✓ 2. 10

✗ 3. 20

✗ 4. 30

Q.31 In a certain code,
'heavy metal music' is coded as 'mx zb kg'
'heavy storm warning' is coded as 'kw vg mx'
'crazy metal storm' is coded as 'zb rq vg'
(all the codes are two letter coded only)
What is the code for 'warning music'?

Ans ✗ 1. kg rq

✗ 2. mx rq

✓ 3. kw kg

✗ 4. zb vg

Q.32 Ajay can row at 4.5 km/h in still water. It takes him twice the time to row up as it takes for him to row down the same distance. Find the speed of the stream (in km/h).

Ans ✗ 1. 0.5

✗ 2. 3

✓ 3. 1.5

✗ 4. 2

Q.33 What should come in place of the question mark (?) in the given series?

7 10 16 25 37 ?

Ans ✓ 1. 52

✗ 2. 51

✗ 3. 53

✗ 4. 50

Q.34 Which statement correctly describes the atomic number of an element?

Ans ✗ 1. Total mass of all subatomic particles

✗ 2. Total number of nucleons in the atom

✓ 3. Number of protons present in the nucleus

✗ 4. Number of neutrons present in the nucleus

Q.35 The term 'Ragam-Tanam-Pallavi' is associated with which style of Indian music?

Ans ✗ 1. Hindustani Music

✗ 2. Sufi Music

✗ 3. Folk Music

✓ 4. Carnatic Music

Q.36 100 apples were bought at ₹1,240 per hundred and were sold at a profit of ₹935. Find the selling price (in ₹) per dozen of apples.

Ans ✗ 1. 266

✗ 2. 271

✗ 3. 256

✓ 4. 261

Q.37 Find the median from the following data.

Age in years	15-25	25-35	35-45	45-55	55-65	65-75	75-85
No. of patients	10	17	22	26	30	24	21

Ans ✗ 1. 47 years

✗ 2. 65 years

✓ 3. 55 years

✗ 4. 70 years

Q.38 **Why are bulbs filled with nitrogen and argon gases instead of air?**

Ans ✓ 1. To prolong the life of the filament

✗ 2. To make the bulb heavier

✗ 3. To increase brightness

✗ 4. To reduce electricity consumption

Q.39 **In the 2024 Global Hunger Index released on October 2024, India is ranked 105th out of the how many countries?**

Ans ✓ 1. 127

✗ 2. 210

✗ 3. 90

✗ 4. 195

Q.40 **Which structural feature primarily enables upward movement of water against gravity in plants?**

Ans ✗ 1. Large intercellular spaces in spongy mesophyll

✓ 2. Lignified xylem vessels forming continuous columns

✗ 3. Actively dividing meristematic tissues

✗ 4. Thin-walled sieve tubes with companion cells

Q.41 **Hitesh starts from Point A and drives 10 km towards east. He then takes a left turn, drives 5 km, turns left and drives 11 km. He then takes a left turn and drives 6 km. He takes a final left turn, drives 1 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° turns only unless specified.)**

Ans ✗ 1. 2 km to the south

✓ 2. 1 km to the north

✗ 3. 2 km to the north

✗ 4. 1 km to the south

Q.42 **What is the remainder when 3^{939} is divided by 8?**

Ans ✗ 1. 2

✓ 2. 3

✗ 3. 5

✗ 4. 0

Q.43 **Refer to the following letter, symbol series and answer the question.**
(Left) V E @ M O S % & V I % X $ T P N $ V # C & B J (Right)
If all the letters are dropped from the series, which of the following will be fifth from the left?

Ans ✗ 1. @

✗ 2. #

✓ 3. $

✗ 4. %

Q.44 **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 is the letter-cluster that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✓ 1. KMI

✗ 2. VWT

✗ 3. PQN

✗ 4. YZW

Q.45 A physicist uses a convex lens to focus sunlight onto a piece of paper and notices the smallest, brightest spot forms at a certain distance from the lens. Which property of the lens does this experiment help to determine?

Ans ✗ 1. The experiment helps to determine the principal axis of the lens.

✗ 2. The experiment helps to determine the optical center of the lens.

✗ 3. The experiment helps to determine the diameter of the lens.

✓ 4. The experiment helps to determine the focal length of the lens.

Q.46 From the top of a cliff the angle of depression of a point on the ground 240 feet away from the bottom of the cliff is 30°. Find the height of the cliff (in feet, rounded off to the nearest integer).
(Use √3 = 1.732)

Ans ✗ 1. 124

✓ 2. 139

✗ 3. 146

✗ 4. 130

Q.47 When a gun is fired, it recoils backward as the bullet moves forward. How does this demonstrate Newton's third law of motion?

Ans ✗ 1. The bullet moves forward only because the gun has stored energy.

✗ 2. The gun moves backward because it is heavier than the bullet.

✗ 3. The gun recoils because the bullet moves faster than the gun.

✓ 4. The gun pushes the bullet forward, and the bullet pushes the gun backward with an equal and opposite force.

Q.48 Refer to the two statements given below and choose the CORRECT option.

Statement A: Selective reabsorption in nephrons helps maintain water and salt balance in the body.

Statement B: Selective reabsorption prevents nitrogenous wastes from entering the filtrate.

Ans ✗ 1. Statement A is incorrect but B is correct.

✗ 2. Both statements A and B are correct.

✗ 3. Both statements A and B are incorrect.

✓ 4. Statement A is correct but B is incorrect.

Q.49 The LCM of $2^3 \times 6^2 \times 11$, $2^2 \times 11^2 \times 17$ and $6^3 \times 11^2 \times 17^2$ is:

Ans ✗ 1. 24 × 34 × 112 × 172

✓ 2. 25 × 33 × 112 × 172

✗ 3. 24 × 33 × 112 × 172

✗ 4. 25 × 34 × 112 × 172

Q.50 Each of G, H, I, J, P, Q and R 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 exam before Q. Only one person has exam after P. Only three people have exam between Q and J. Only one person has exam between I and H. G has exam immediately before I. How many people have exam between R and I?

Ans ✗ 1. Three

✓ 2. Two

✗ 3. One

✗ 4. None

Q.51 A shopkeeper marks an article at ₹x and offers a discount of 50% on it. He sells it for ₹287 after charging VAT of 64% on the discounted price. What is the value of x?

Ans ✗ 1. 300

✗ 2. 200

✗ 3. 250

✓ 4. 350

Q.52 A cricket ball of mass 0.15 kg is thrown horizontally at 30 m/s from the top of a building. What is the ball's kinetic energy as it leaves the hand?

Ans ✗ 1. 90 J

✗ 2. 135 J

✓ 3. 67.5 J

✗ 4. 45.5 J

Q.53 Seven people, F, J, M, L, R, V and X, are sitting in a row, facing north. No one sits to the right of J. Only three people sit between J and R. Only two people sit between R and M. V sits third to the left of L. X sits to the immediate right of L. How many people sit to the left of X?

Ans ✗ 1. 2

✗ 2. 3

✗ 3. 1

✓ 4. 4

Q.54 In a certain code,
'tall boy smart' is coded as 'we ki no'
'short boy lazy' is coded as 'pa ki ru'
'tall girl lazy' is coded as 'we sa ru'
(all the codes are two letter coded only)
What is the code for "tall boy"?

Ans ✗ 1. pa ru

✗ 2. we sa

✗ 3. sa ki

✓ 4. we ki

Q.55 Girish scored 459 marks in an examination and was 81 marks short of 20% of the maximum marks. In the same examination, his friend scored 756 marks. What is the percentage of marks scored by his friend?

Ans ✗ 1. 29%

✓ 2. 28%

✗ 3. 30%

✗ 4. 27%

Q.56 What is the function of the iris in the human eye?

Ans ✓ 1. Controls the size of the pupil

✗ 2. Refracts incoming light rays

✗ 3. Transmits signals to the brain

✗ 4. Forms the image on the retina

Q.57 Which two districts of Uttarakhand share the inter-state border with Himachal Pradesh in the north-west?

Ans ✗ 1. Chamoli and Pithoragarh

✗ 2. Pauri and Rudraprayag

✓ 3. Uttarkashi and Dehradun

✗ 4. Champawat and Bageshwar

Q.58 $If \ \dfrac{x}{y} = \dfrac{18}{2}, then \ find \ \dfrac{x^2 + y^2}{x^2 - y^2}$

Ans

✗ 1. $\dfrac{47}{40}$

✗ 2. $\dfrac{37}{40}$

✗ 3. $\dfrac{31}{40}$

✓ 4. $\dfrac{41}{40}$

Q.59 The difference between simple interest and compound interest, compounded annually, on a certain sum of money for 2 years at 11% per annum is ₹371. Find the sum. [Give your answer rounded off to the nearest integer.]

Ans

✗ 1. ₹30,672

✗ 2. ₹30,669

✗ 3. ₹30,679

✓ 4. ₹30,661

Q.60 If a material has an absolute refractive index of 1.7, what does this imply about the speed of light in that material compared to vacuum?

Ans

✗ 1. Light travels 1.7 times faster in the material than in vacuum.

✗ 2. Light travels at the same speed in both.

✗ 3. The speed difference cannot be determined from this value.

✓ 4. Light travels 1.7 times slower in the material than in vacuum.

Q.61 If 25 people, working for 10 hours a day, can complete 2 units of work in 5 days, then how many days will be required for 15 people to complete 18 units of work, if each person works for 10 hours a day?

Ans

✗ 1. 85

✗ 2. 70

✗ 3. 60

✓ 4. 75

Q.62 Which bee variety is commonly known as the Indian bee and is used for commercial honey production?

Ans

✗ 1. Apis mellifera

✗ 2. Apis dorsata

✗ 3. Apis florae

✓ 4. Apis cerana indica

Q.63 If the mode and median of a certain data are 24 and 18, respectively, then the mean of the data is:

Ans

✗ 1. 20

✓ 2. 15

✗ 3. 24

✗ 4. 22

Q.64 If + means - , - means x , x means ÷ , ÷ means +, then what will come in place of the question mark (?) in the following equation?

3-24×6÷21+7=?

Ans ✗ 1. 28

✓ 2. 26

✗ 3. 36

✗ 4. 31

Q.65 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 F related to M if 'F # H x J % E % M'?

Ans ✗ 1. Son's daughter

✗ 2. Brother's son

✓ 3. Father's sister

✗ 4. Father's mother

Q.66 Which of the following statements about washing soda is CORRECT?

Ans ✓ 1. Washing soda is chemically sodium carbonate decahydrate ($Na_2CO_3 \cdot 10H_2O$)

✗ 2. It is obtained by heating sodium bicarbonate to 100°C

✗ 3. It does not remove permanent hardness of water

✗ 4. Washing soda is acidic in nature

Q.67 21 is related to 274 following a certain logic. Following the same logic, 26 is related to 339. To which of the following is 34 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. 452

✗ 2. 445

✗ 3. 447

✓ 4. 443

Q.68 Which statement best explains why unsaturated carbon compounds are generally more reactive than saturated carbon compounds?

Ans ✗ 1. Unsaturated compounds have fewer hydrogen atoms attached to carbon

✗ 2. Unsaturated compounds form only straight carbon chains

✗ 3. Unsaturated compounds contain only single bonds between carbon atoms

✓ 4. Unsaturated compounds have double or triple bonds between carbon atoms

Q.69 Who is the author of the book 'Leo: The Untold Story of Chennai Super Kings', which was launched in March 2025?

Ans ✓ 1. P.S. Raman

✗ 2. Aniruddha Srikanth

✗ 3. K. Chandrashekharan

✗ 4. Ravichandran Ashwin

Q.70 What was the primary theme of the International Symposium on Health Technology Assessment (ISHTA) 2025?

Ans ✓ 1. Bridging evidence to policy for healthcare

✗ 2. Enhancing global health security efforts

✗ 3. Showcasing medical device technologies

✗ 4. Promoting digital health innovations

Q.71 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 brother of B'

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

Ans ✗ 1. Mother's sister's son

✗ 2. Father's sister's daughter

✓ 3. Sister's son's wife

✗ 4. Mother's sister's daughter

Q.72 A toy manufacturer originally makes a conical toy with a base radius of 3 cm and a height of 7 cm. Due to customer demand, he now wants to produce a similar toy that has 75% of the original volume, while keeping the same base radius as before. What should be the height of the new toy? $\left(\text{Take } \pi = \frac{22}{7}\right)$

Ans ✗ 1. 5.5 cm

✗ 2. 5.125 cm

✗ 3. 5.75 cm

✓ 4. 5.25 cm

Q.73 The 44th Amendment Act of 1978 restored the standard term of the Lok Sabha and State Legislature to how many years?

Ans ✗ 1. three

✗ 2. seven

✓ 3. five

✗ 4. six

Q.74 Let C be a circle with center O. Let AB be a tangent to C, such that AB touches the circle at P. Let X and Y be any two points on C. If ∠APX = 60° and ∠BPY = 30°, find ∠PYX and ∠PXY, respectively.

Ans ✓ 1. 60°, 30°

✗ 2. 90°, 30°

✗ 3. 90°, 60°

✗ 4. 30°, 60°

Q.75 Sodium hydroxide (NaOH) contains _____ as its anion.

Ans ✗ 1. Na+

✗ 2. NO_3^-

✓ 3. OH-

✗ 4. H+

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Q.76 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.)

(11, 13, 17)
(8, 7, 11)

Ans
✗ 1. (6, 21, 25)
✗ 2. (13 , 17, 13)
✓ 3. (10, 11, 15)
✗ 4. (9, 9, 5)

Q.77 Rashmi and Varsha together have ₹22576. If 5/16 of Rashmi's amount is equal to 3/7 of Varsha's amount, how much money does Rashmi have?

Ans
✗ 1. ₹13052
✓ 2. ₹13056
✗ 3. ₹13050
✗ 4. ₹13054

Q.78 Ribosomes are attached to the surface of the rough endoplasmic reticulum. What is the primary function of the rough endoplasmic reticulum?

Ans
✗ 1. Energy production and cellular respiration
✗ 2. DNA replication and transcription
✗ 3. Lipid synthesis
✓ 4. Protein synthesis and transport

Q.79 81 is related to 260 following a certain logic. Following the same logic, 108 is related to 287. To which of the following is 156 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. 334
✗ 2. 332
✗ 3. 340
✓ 4. 335

Q.80 Atomic masses of elements are compared with a standard reference. Carbon-12 was chosen as the standard for the atomic mass unit mainly because:

Ans
✗ 1. Carbon is present in very large amounts in nature
✗ 2. Carbon shows very little chemical reactivity with elements
✓ 3. Carbon-12 gives atomic masses close to whole numbers
✗ 4. Carbon is able to form a large number of compounds

Q.81 Which of the following coastal features in India is believed to have submerged due to tectonic or sea-level changes, as referenced in Indian mythology and archaeology?

Ans
✗ 1. Kavaratti in Lakshadweep
✗ 2. Sunderbans in West Bengal
✗ 3. Rameshwaram near Tamil Nadu
✓ 4. Dwaraka near Gujarat

Q.82 **What should come in place of '?' in the given series?**

23 34 45 56 67 ?

Ans

✗ 1. 76

✗ 2. 75

✗ 3. 77

✔ 4. 78

Q.83 **What should come in place of the '?' in the given series, based on the English alphabetical order?**

RLO QKN PJM OIL ?

Ans

✔ 1. NHK

✗ 2. NGK

✗ 3. NGL

✗ 4. NHL

Q.84 **A sum of money is divided among X, Y and Z in the ratio 4:3:6. If the share of Z is ₹3300 more than Y, then how much amount will X get more than Y?**

Ans

✔ 1. ₹1100

✗ 2. ₹1000

✗ 3. ₹1300

✗ 4. ₹1200

Q.85 **Which of the following everyday examples represents a homogeneous mixture?**

Ans

✗ 1. Oil mixed thoroughly with water

✗ 2. Sand mixed uniformly with iron filings

✗ 3. Chalk powder stirred in water

✔ 4. Salt completely dissolved in water

Q.86 While covering a distance of 36 km, a man noticed that after cycling for 2 hour 5 minutes, the distance covered by him was $\frac{6}{7}$ of the remaining distance. What was his approximate speed in km/h?

Ans

✗ 1. 7.4

✗ 2. 6.7

✗ 3. 8.7

✔ 4. 8

Q.87 **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 papers are bags.
All bags are copies.
Some copies are erasers.
Conclusions:
(I): All papers are erasers.
(II): All bags are erasers.

Ans

✗ 1. Only conclusion (I) follows.

✔ 2. Neither conclusion (I) nor (II) follows.

✗ 3. Only conclusion (II) follows.

✗ 4. Both conclusions (I) and (II) follow.

Q.88 Why is using compost or vermi-compost preferable to excessive use of fertilizers for increasing soil fertility?

Ans
✗ 1. It eliminates bacterial and viral plant diseases.

✓ 2. It recycles biological waste and avoids environmental harm.

✗ 3. It supplies only micro-nutrients and avoids macronutrients.

✗ 4. It replaces the need for irrigation and weeding.

Q.89 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) U P X @ F H R A A # / E M # U L J \ L \ \ (Right)

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

Ans
✗ 1. None

✗ 2. Three

✗ 3. Two

✓ 4. One

Q.90 The selling price of 45 books is equal to the cost price of 18 books. Find the loss or gain percentage.

Ans
✗ 1. $\dfrac{100}{27}\% \ loss$

✓ 2. 60 % loss

✗ 3. 60 % gain

✗ 4. $\dfrac{100}{27}\% \ gain$

Q.91 D, R, A, W and S have different marks. Only one person has scored between W and S. Only one person has scored between S and D. A has scored less than W and S. How many people have scored less than R?

Ans
✗ 1. Four

✗ 2. One

✓ 3. Three

✗ 4. Two

Q.92 Consider a quadratic equation $3x^2 + 4x - 8 = 0$. Which of the following quadratic equations will have both roots common with the given quadratic equation?

Ans
✗ 1. $3x^2 - 4x + 8 = 0$

✓ 2. $-1.5x^2 - 2x + 4 = 0$

✗ 3. $3x^2 + 4x + 8 = 0$

✗ 4. $-1.5x^2 + 2x + 4 = 0$

Q.93 Find the value of $\dfrac{x+3}{x^2-2x} \times \dfrac{2x-1}{x^2+2x+4} \times \dfrac{x^4-8x}{2x^2+5x-3}$.

Ans
✗ 1. 2

✗ 2. -1

✗ 3. 0

✓ 4. 1

Q.94 Which of the following is NOT a feature of the Comprehensive Environmental Pollution Index?

Ans ✅ 1. It was first introduced in 1983.

❌ 2. It shall be an early warning tool.

❌ 3. All the polluting sources identified in the area shall be notified and brought into the public domain.

❌ 4. It can applied to locations other than industrial clusters.

Q.95 The average of the first 18 positive multiples of 10 is:

Ans ✅ 1. 95

❌ 2. 90

❌ 3. 10

❌ 4. 18

Q.96 Which statement is correct regarding the definition of biodegradable substances?

Ans ✅ 1. Substances that are broken by biological process

❌ 2. Substances that are broken by chemical process

❌ 3. Substances that are broken by mechanical process

❌ 4. Substances that are broken by physical process

Q.97 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) K & Z # % X N E A A Y C + H \ Y = C $ M H (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. Three

✅ 2. Two

❌ 3. Zero

❌ 4. One

Q.98 If an ammeter reading increases when a thicker wire replaces a thinner one of the same material and length, what is the most likely reason?

Ans ❌ 1. The wire's resistivity increased

❌ 2. The voltage across the wire decreased

❌ 3. The wire's length is shorter

✅ 4. The resistance of the thicker wire is lower, allowing more current

Q.99 Which Indian filmmaker was inducted as a registered member of the European Film Academy in 2025?

Ans ❌ 1. Neeraj Ghaywan

✅ 2. Pan Nalin

❌ 3. Kiran Rao

❌ 4. Sriram Raghavan

Q.100 In a factory, the average daily wage of 12 skilled workers and 18 unskilled workers is ₹604. If the average wage of the skilled workers is ₹754, then find the average wage of the unskilled workers.

Ans ❌ 1. ₹534

❌ 2. ₹514

❌ 3. ₹524

✅ 4. ₹504