



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - ०७/२०२४ - CEN - 07/2024
Recruitment for Ministerial and Isolated Categories



RRB MINISTERIAL & ISOLATED 2024

Lab Assistant

Ministerial and Isolated Categories | CEN 07/2024

ENGLISH ANSWER KEY

Official Answer Key

Complete Paper · 12 Sep 2025

Post	Lab Assistant
Questions	100 per paper
Marking	+1 correct / -1/3 wrong
Duration	90 minutes
Sections	Professional Ability 50 · General Ability 50

Every paper is printed from the official question text with the correct answer marked.

HOW TO USE THIS BOOK

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- 2 Click any row to jump straight to that date and shift.
- 3 The correct option of every question is ticked in green.
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Compiled 27 October 2026

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RRB Ministerial & Isolated 2024 - Lab Assistant (English) - 1 paper

PAPER	DATE	TIME	QUESTIONS	PAGE
Paper 1	12 Sep 2025	12:45 PM - 2:15 PM	100	3



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सी ई एन - ०७/२०२४ - CEN - 07/2024
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PAPER 1 of 1 · Lab Assistant · English

Exam	RRB Ministerial & Isolated 2024 (CEN 07/2024)
Post	Lab Assistant
Test Date	12 Sep 2025
Test Time	12:45 PM - 2:15 PM
Language	English
Questions	100
Marking	+1 correct / -1/3 wrong

Correct option of the official answer key: **green with ✓**. Question IDs are RRB's own.

Section : Professional Ability

Q.1 Which equipment is used for magnetic particle testing? Ans 1. Spectrometer 2. X-ray machine 3. Magnaflux ✓ 4. Ultrasonic tester	Question ID : 4410091194720 Correct Option : 3
Q.2 What does oxidation stability of a lubricant primarily measure? Ans 1. Resistance to mechanical wear 2. Resistance to thermal expansion 3. Resistance to chemical degradation by oxygen exposure ✓ 4. Resistance to water contamination	Question ID : 4410091203282 Correct Option : 3
Q.3 The energy of X-rays and gamma rays is usually expressed in ____. Ans 1. ergs or electron volts ✓ 2. newtons 3. calories 4. lumens	Question ID : 4410091194601 Correct Option : 1
Q.4 Which of the following tests is used to measure abrasion resistance of rubber materials? Ans 1. Izod Impact Test 2. Taber Abrasion Test ✓ 3. Shore Hardness Test 4. Charpy Test	Question ID : 4410091197737 Correct Option : 2

Q.5 The glass envelope in which X-rays are produced is called the ____. Ans 1. X-ray chamber 2. X-ray tube ✓ 3. X-ray cell 4. X-ray casing	Question ID : 4410091194607 Correct Option : 2
Q.6 Radiography techniques used in casting are primarily applied to ____. Ans 1. increase the strength of materials 2. detect internal cracks and defects in materials and welds ✓ 3. detect only surface defects in metals 4. measure hardness of materials	Question ID : 4410091194628 Correct Option : 2
Q.7 Which of the following is NOT a way in which painting helps increase the durability and extend the service life of railway coaches? Ans 1. Absorbing heat and light, promoting thermal stress on materials ✓ 2. Shielding the metal from industrial pollutants, acids, and alkalis 3. Protecting the surface from harmful chemicals and adverse weather 4. Forming a barrier against moisture and oxygen to prevent corrosion	Question ID : 4410091191406 Correct Option : 1
Q.8 Which of the following is NOT a defect in electroplating? Ans 1. Pitting 2. Porosity 3. Blistering 4. Smoothness ✓	Question ID : 4410091201203 Correct Option : 4
Q.9 What is the function of wearing gloves during the electroplating process? Ans 1. To make hands look more attractive 2. To improve grip 3. To keep hands warm 4. To protect hands from chemical burn ✓	Question ID : 4410091201192 Correct Option : 4
Q.10 The constant of proportionality used for Hooke's law is known as ____. Ans 1. Shear modulus 2. Bulk modulus 3. Young's modulus ✓ 4. Hooke's modulus	Question ID : 4410091199826 Correct Option : 3
Q.11 Which of following test methods is commonly used to determine the oxidation induction time (OIT) of lubricants? Ans 1. Karl Fischer water test 2. Penetration test ASTM D217 3. Rotating Pressure Vessel Oxidation test ASTM D2272 ✓ 4. Flash point test ASTM D93	Question ID : 4410091203299 Correct Option : 3

Q.12 What type of defects is dye penetrant testing used to detect? Ans 1. Small surface cracks or flaws ✓ 2. Internal cracks only 3. Electrical faults 4. Colour changes in metals	Question ID : 4410091194692 Correct Option : 1
Q.13 What is the typical colorimetric measurement wavelength used in the molybdenum blue method for phosphorus determination? Ans 1. 540 nm 2. 450 nm 3. 320-420 nm 4. 650-830 nm ✓	Question ID : 4410091216449 Correct Option : 4
Q.14 Which manufacturing process produces the strongest plastic parts with fibre reinforcement? Ans 1. Blow moulding 2. Pultrusion ✓ 3. Injection moulding 4. Compression moulding	Question ID : 4410091206893 Correct Option : 2
Q.15 Which famous Indian Standard (IS) specifies synthetic enamel paints commonly used for finishing railway coaches? Ans 1. IS: 456 - 2000 2. IS: 1239 - 2003 3. IS: 101 - 2011 4. IS: 8662 - 2004 ✓	Question ID : 4410091198465 Correct Option : 4
Q.16 Which of the following mechanical properties is obtained from tensile test? Ans 1. Hardness number 2. Ultimate tensile strength ✓ 3. Fracture toughness 4. Phase fraction	Question ID : 4410091197552 Correct Option : 2
Q.17 Which of the following characteristics is NOT typically assessed during the visual finish evaluation of ROZ Primer and Synthetic Enamel coatings on railway coaches? Ans 1. Colour uniformity across surfaces 2. Dry film thickness measurement ✓ 3. Texture uniformity of the coating 4. Smoothness of the paint film	Question ID : 4410091201182 Correct Option : 2

Q.18 In welding radiography, porosity will appear as a ____. Ans 1. single dark band 2. cluster of dark spots ✓ 3. cluster of light spots 4. uniform gray area	Question ID : 4410091194624 Correct Option : 2
Q.19 Which of the following properties is obtained from area under the stress vs strain curve up to yield point? Ans 1. Modulus of Resilience ✓ 2. Ductility 3. Modulus of Toughness 4. Tensile strength	Question ID : 4410091197599 Correct Option : 1
Q.20 What does a higher Brinell Hardness Number (BHN) primarily indicate about a metal? Ans 1. The metal is more conductive. 2. The metal is more ductile. 3. The metal is harder. ✓ 4. The metal is more brittle.	Question ID : 4410091216694 Correct Option : 3
Q.21 The component that is NOT a part of an electroplating bath setup is/are ____. Ans 1. anode 2. resistance coil ✓ 3. heaters 4. cathode	Question ID : 4410091201105 Correct Option : 2
Q.22 Which of the following surface preparation methods is generally not used in the painting process of coaches in Indian Railways? Ans 1. Abrasive cleaning 2. Hand cleaning 3. Solvent wiping 4. Electrical treatment ✓	Question ID : 4410091197388 Correct Option : 4
Q.23 Which device is used to receive and display ultrasonic signals? Ans 1. Cathode ray oscilloscope ✓ 2. Optical microscope 3. Electromagnetic coil 4. Photodiode sensor	Question ID : 4410091194669 Correct Option : 1
Q.24 The primary function of pickling in surface preparation is to: Ans 1. increase the surface area 2. remove oil and grease 3. remove scale and oxides ✓ 4. make surface smooth	Question ID : 4410091190682 Correct Option : 3

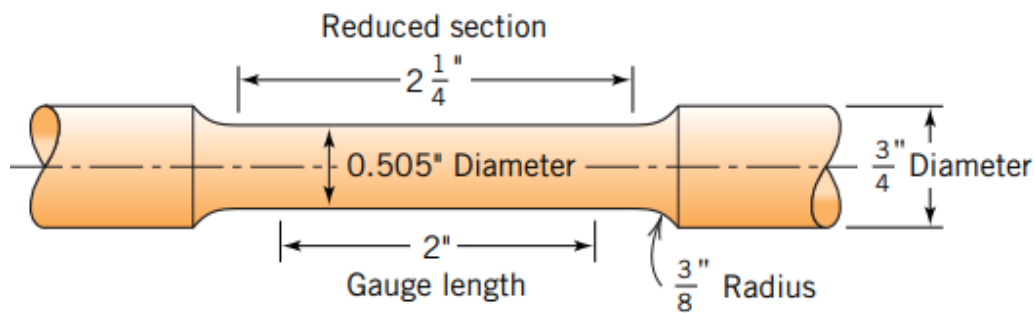
Q.25 In tensile tests, the specimen is deformed up to what point or limit? Ans 1. Up to the yielding limit 2. Up to the elastic limit 3. Up to the plastic limit 4. Up to fracture ✓	Question ID : 4410091199799 Correct Option : 4
Q.26 When estimating carbon in high-alloy steels containing chromium (>5%), what special consideration is required in combustion analysis? Ans 1. Longer combustion time 2. Higher oxygen flow rate 3. Addition of tin capsules ✓ 4. Use of tungsten accelerators	Question ID : 4410091206901 Correct Option : 3
Q.27 Which paint application method is commonly employed for precise touch-up work in small or intricate areas of railway coaches? Ans 1. Dip coating 2. Brush painting ✓ 3. Spray painting 4. Electrostatic spray painting	Question ID : 4410091198621 Correct Option : 2
Q.28 Which filler is commonly added to rubber to enhance its mechanical properties? Ans 1. Calcium carbonate 2. Silica 3. Titanium dioxide 4. Carbon black ✓	Question ID : 4410091206890 Correct Option : 4
Q.29 Engineering stress σ is defined by the relationship $\sigma = F/A_0$, where A_0 is the original cross-sectional area before any load is applied. What does the symbol F represent? Ans 1. Impact load 2. Bending load 3. Shear load 4. Instantaneous load ✓	Question ID : 4410091199788 Correct Option : 4
Q.30 Which heat treatment process is used to soften steel for machining? Ans 1. Annealing ✓ 2. Case hardening 3. Tempering 4. Quenching	Question ID : 4410091206866 Correct Option : 1

Q.31 How is the penetration value measured in the grease penetration test (ASTM D217)? Ans 1. The time taken for grease to flow through a capillary 2. The depth a cone penetrates into a grease sample under standard conditions ✓ 3. The resistance to shear forces under working conditions 4. The temperature at which grease melts	Question ID : 4410091202364 Correct Option : 2
Q.32 In a 3-point bend test, the maximum bending stress in the specimen occurs: Ans 1. uniformly along the specimen length 2. at one-third length from the support 3. at the midpoint between the supports ✓ 4. at the supports	Question ID : 4410091206828 Correct Option : 3
Q.33 Which type of extensometer works on the principle of variation in electrical resistance due to strain? Ans 1. strain gauge extensometer ✓ 2. magnetic extensometer 3. optical extensometer 4. clip-on extensometer	Question ID : 4410091204521 Correct Option : 1
Q.34 In a Compression Testing Machine (CTM), the compression plates are used to: Ans 1. transfer load uniformly to the specimen ✓ 2. increase hydraulic pressure 3. support the load frame 4. measure load	Question ID : 4410091204696 Correct Option : 1
Q.35 Which of the following properties is obtained from area under the stress vs strain curve up to fracture? Ans 1. Tensile strength 2. Resilience 3. Toughness ✓ 4. Ductility	Question ID : 4410091197573 Correct Option : 3
Q.36 After dissolving a steel sample in acid to estimate silicon, what is the insoluble compound that is filtered and weighed? Ans 1. Silicon carbide (SiC) 2. Silica (SiO₂) ✓ 3. Silicon molybdate complex 4. Potassium silicon fluoride (K₂SiF₆)	Question ID : 4410091206864 Correct Option : 2

Q.37 Which of the following types of steel is most suitable for making cutting tools? Ans 1. Low-carbon steel 2. Stainless steel 3. Medium-carbon steel 4. High-carbon steel ✓	Question ID : 4410091206871 Correct Option : 4
Q.38 What is the unit of the engineering strain? Ans 1. Independent of the unit ✓ 2. mm 3. m/s 4. MPa	Question ID : 4410091199806 Correct Option : 1
Q.39 Which of the following ISO standards specifies the methods for determining the drying time of paints? Ans 1. ISO 2409 2. ISO 4624 3. ISO 9117 ✓ 4. ISO 4380	Question ID : 4410091201285 Correct Option : 3
Q.40 What does a lower impact energy value in a Charpy test indicate about an aluminum alloy? Ans 1. More brittle behaviour ✓ 2. Increased hardness 3. Better conductivity 4. Higher toughness	Question ID : 4410091216700 Correct Option : 1
Q.41 In a Charpy Impact Testing Machine, the specimen is supported: Ans 1. vertically between two supports 2. horizontally as a fixed beam 3. vertically as a cantilever 4. horizontally as a simply supported beam ✓	Question ID : 4410091206818 Correct Option : 4
Q.42 Which of the following test standards are applicable for evaluating the chemical and oil resistance of ROZ Primer and Synthetic Enamel coating systems used in railway coaches? Ans 1. ISO 2409 2. ISO 2808 3. ISO 7784 4. ISO 2812 ✓	Question ID : 4410091200896 Correct Option : 4

Q.43 The specimen shown is used in which of the following tests?

Question ID :
4410091199817
Correct Option : 4



Ans

1. Bending test
2. Fatigue test
3. Torsion test
4. **Tensile test ✓**

Q.44 Which of the following instruments is most widely used for measuring the viscosity of lubricants?

Question ID :
4410091200761
Correct Option : 4

Ans

1. Barometer
2. Bomb calorimeter
3. Thermocouple
4. **Redwood viscometer ✓**

Q.45 In welding radiography, a darker area on the film usually indicates ____.

Question ID :
4410091194621
Correct Option : 3

Ans

1. a region with higher density than the weld
2. no difference in density compared to the weld
3. **a region with less dense material than the weld ✓**
4. only surface ripples in the weld

Q.46 Which of the following tests is commonly used to detect water contamination in lubricating oils?

Question ID :
4410091202916
Correct Option : 3

Ans

1. Izod Impact test
2. Shore Hardness test
3. **Karl Fischer test ✓**
4. Taber Abrasion test

Q.47 In ultrasonic testing, which of the following components generates and applies high-frequency sound waves to the test piece?

Question ID :
4410091194662
Correct Option : 3

Ans

1. Cathode ray oscilloscope
2. Magnetic coil
3. **Piezoelectric crystal ✓**
4. Laser diode

Q.48 Compared to a 3-point bend test, the 4-point bend test: Ans 1. requires less equipment accuracy 2. always causes shear failure instead of bending 3. produces a larger region of uniform maximum bending moment ✓ 4. produces no bending moment in the specimen	Question ID : 4410091206831 Correct Option : 3
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Q.49 Which of the following quantities is measured in abrasion resistance test? Ans 1. Percentage of change in density 2. Percentage of change in Phase fraction 3. Percentage of weight loss ✓ 4. Percentage of change in length	Question ID : 4410091197674 Correct Option : 3
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Q.50 What is the primary source of natural rubber? Ans 1. Petroleum 2. Synthetic polymers 3. Coal tar 4. Hevea brasiliensis tree ✓	Question ID : 4410091206886 Correct Option : 4
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Section : General Ability

Q.51 Which of the following Articles related to the Directive Principle of State Policy (DPSP) was implemented by the 73rd Amendment of 1992? Ans 1. Article 46 2. Article 40 ✓ 3. Article 42 4. Article 44	Question ID : 4410091225176 Correct Option : 2
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Q.52 50 Ω, 50 Ω and 100 Ω resistors are connected in series in a circuit. They can be replaced with a single resistor of _____ in the circuit. Ans 1. 200 Ω ✓ 2. 100 Ω 3. 20 Ω 4. 0.05 Ω	Question ID : 441009654648 Correct Option : 1
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Q.53 RIAL is related to HYQB in a certain way based on the English alphabetical order. In the same way, DUMX is related to TKCN. To which of the given options is ZQIT related, following the same logic? Ans 1. PGTR 2. PLKI 3. PGTY 4. PGYJ ✓	Question ID : 441009821137 Correct Option : 4
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Q.54 In May 2025, ISRO's 101st launch attempt, which failed, was carrying which satellite? Ans 1. EOS-08 2. EOS-02 3. EOS-09 ✓ 4. EOS-01	Question ID : 4410091214390 Correct Option : 3
Q.55 One pipe can fill the tank in 12 min while another pipe can empty completely filled tank in 21 min. If both the pipes are operated together on empty tank, how long (in min) will it take to fill one-fourth of the tank? Ans 1. 14 2. 21 3. 7 ✓ 4. 28	Question ID : 441009184758 Correct Option : 3
Q.56 A mobile phone with a marked price ₹ 16,800 was sold for ₹ 13,944. What is the percentage discount given on the sale of the mobile phone. Ans 1. 17% ✓ 2. 15% 3. 16% 4. 18%	Question ID : 441009916512 Correct Option : 1
Q.57 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation? 33 A 3 C 4 B 2 D 4 A 2 = ? Ans 1. 19 2. 17 ✓ 3. 14 4. 11	Question ID : 4410091205797 Correct Option : 2
Q.58 Which of the following Articles of the Indian Constitution in Part VIII of the Constitution deals with the union territories? Ans 1. Articles 239 to 241 ✓ 2. Articles 235 to 239 3. Articles 259 to 271 4. Articles 249 to 261	Question ID : 4410091225222 Correct Option : 1
Q.59 Why is Cuscuta called a parasitic plant? Ans 1. It depends on a host plant for nutrition. ✓ 2. It traps insects for nitrogen. 3. It grows in soil independently. 4. It produces its own food via photosynthesis.	Question ID : 4410091200065 Correct Option : 1

Q.60

$$\tan \frac{20\pi}{21} - \tan \frac{2\pi}{7} + \sqrt{3} \tan \frac{2\pi}{7} \tan \frac{20\pi}{21} = ?$$

Ans

1. $\sqrt{3}$
2. $-\frac{1}{\sqrt{3}}$
3. $\frac{1}{\sqrt{3}}$

4. $-\sqrt{3}$ ✓

Question ID :
441009620602
Correct Option : 4

Q.61

A producer has 5000 J of energy. If only 10% of energy is transferred between trophic levels, how much energy will be available to the secondary consumer?

Ans

1. 5 J
2. 50 J ✓
3. 25 J
4. 500 J

Question ID :
4410091200430
Correct Option : 2

Q.62

Which of the following leaders is associated with the Extremist phase?

Ans

1. Mahatma Gandhi
2. Gopal Krishna Gokhale
3. Bal Gangadhar Tilak ✓
4. Dadabhai Naoroji

Question ID :
4410091214374
Correct Option : 3

Q.63

What is a budget deficit?

Ans

1. When government expenses exceed its income ✓
2. When the fiscal deficit is zero
3. When government income exceeds its expenses
4. When RBI prints extra currency

Question ID : 44100966336
Correct Option : 1

Q.64

What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FAT ZUN TOH NIB ?

Ans

1. HVG
2. HCV ✓
3. HVC
4. HGT

Question ID :
4410091198667
Correct Option : 2

Q.65 Which of the following are compressed gases commonly used in daily life? (i) LPG for cooking (ii) Oxygen in hospitals (iii) CNG in vehicles (iv) Water in bottles Ans 1. (ii) and (iv) only 2. (i) and (iii) only 3. (i), (ii) and (iii) only ✓ 4. (i), (ii), (iii) and (iv)	Question ID : 4410091203406 Correct Option : 3
Q.66 Which of the following was the immediate cause for the rise of the Extremist movement in India? Ans 1. Arrest of Bal Gangadhar Tilak (1908) 2. The passing of the Rowlatt Act (1919) 3. Partition of Bengal (1905) ✓ 4. Jallianwala Bagh massacre (1919)	Question ID : 4410091214368 Correct Option : 3
Q.67 Amit borrows a sum of money from Avinash for 2 years at 5% simple interest per annum. After 2 years, he repays ₹6,666 in full settlement of the loan. How much interest did Amit pay? Ans 1. ₹606 ✓ 2. ₹612 3. ₹600 4. ₹610	Question ID : 441009916715 Correct Option : 1
Q.68 Who became the first Indian wicketkeeper to score centuries in both innings of a Test match? Ans 1. Wriddhiman Saha 2. Rishabh Pant ✓ 3. Dinesh Karthik 4. Mahendra Singh Dhoni	Question ID : 4410091209364 Correct Option : 2
Q.69 What amount was allocated for the COVID-19 vaccine in the 2021-22 Budget? Ans 1. ₹25,000 crore 2. ₹50,000 crore 3. ₹35,000 crore ✓ 4. ₹45,000 crore	Question ID : 441009610950 Correct Option : 3
Q.70 Italia Gopal, who won the Visavadar (Gujarat) Assembly Constituency in the June 2025 bye-election, represents which political party? Ans 1. Bahujan Samaj Party 2. Bharatiya Janata Party 3. Aam Aadmi Party ✓ 4. Indian National Congress	Question ID : 4410091214293 Correct Option : 3

Q.71 Majuli Island is located in which Indian state? Ans 1. West Bengal 2. Andhra Pradesh 3. Assam ✓ 4. Odisha	Question ID : 4410091204581 Correct Option : 3
Q.72 In July 2025, the Ministry of Skill Development and Entrepreneurship (MSDE) launched which AI-powered chatbot, developed jointly by META and NSDC? Ans 1. Power-AI 2. MSDE-AI 3. Power AI Assistant 4. Skill India Assistant ✓	Question ID : 4410091214326 Correct Option : 4
Q.73 GLAS is related to KPWO in a certain way based on the English alphabetical order. In the same way, OTSK is related to SXOG. To which of the given options is WBKC related, following the same logic? Ans 1. ZGFX 2. BDHY 3. AFGY ✓ 4. BEHZ	Question ID : 441009819784 Correct Option : 3
Q.74 In a certain code language, 'FIST' is coded as '3962' and 'SOFT' is coded as '3562'. What is the code for 'O' in the given code language? Ans 1. 9 2. 5 ✓ 3. 2 4. 6	Question ID : 4410091198602 Correct Option : 2
Q.75 Seven boxes E, F, G, H, S, T and U are kept one over the other but not necessarily in the same order. Only three boxes are kept above G. Only one box is kept between E and G. Only three boxes are kept between E and U. U is kept at some place above G. T is kept immediately below U. S is kept at one of the places above F. H is not kept immediately above or below E. Which box is kept at the lowermost position? Ans 1. S 2. F ✓ 3. E 4. T	Question ID : 4410091198584 Correct Option : 2

Q.76 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R). Assertion (A): Copper wire in iron sulphate solution shows no visible reaction. Reason (R): Copper is less reactive than iron. Ans 1. A is true, but R is false. 2. A is false, but R is true. 3. Both A and R are true, but R is not the correct explanation of A. 4. Both A and R are true, and R is the correct explanation of A. ✓	Question ID : 4410091196688 Correct Option : 4
Q.77 What is a major risk associated with chewing tobacco? Ans 1. Skin irritation 2. Joint pain 3. Pulmonary diseases and cancers ✓ 4. Muscle cramps	Question ID : 4410091200239 Correct Option : 3
Q.78 Which of the following statements are correct? (i) Solid CO₂ is called dry ice. (ii) Solid CO₂ changes directly into gas at 1 atm pressure. (iii) Pressure and temperature can change the state of matter. (iv) Solid CO₂ melts into liquid CO₂ before becoming gas. Ans 1. (i), (ii), (iii) and (iv) 2. (ii) and (iv) only 3. (i), (ii) and (iii) only ✓ 4. (i) and (iv) only	Question ID : 4410091203365 Correct Option : 3
Q.79 Refer to the number series given below and answer the question that follows. Counting to be done from left to right only. (All numbers are single-digit numbers only.) (Left) 4 7 5 8 9 2 8 7 1 6 8 2 9 8 5 2 8 2 6 4 4 7 8 (Right) How many such odd digits are there each of which is immediately preceded by an odd digit and also immediately followed by an odd digit? Ans 1. One 2. Two 3. None ✓ 4. Three	Question ID : 441009819697 Correct Option : 3
Q.80 Which among the following states in India has the longest coastal boundary? Ans 1. West Bengal 2. Gujarat ✓ 3. Maharashtra 4. Andhra Pradesh	Question ID : 4410091204577 Correct Option : 2

Q.81 In an eukaryotic cell, the thread-like structures carrying genetic information are mainly found in the: Ans 1. Ribosome 2. Cytoplasm 3. Nucleus ✓ 4. Golgi body	Question ID : 4410091199654 Correct Option : 3
Q.82 Which of the following ecological concepts best defines the process by which a body of water becomes overly enriched with nutrients, primarily nitrogen and phosphorus, leading to an excessive growth of algae and other simple plant life? Ans 1. Biomagnification 2. Ecological succession 3. Bioaccumulation 4. Eutrophication ✓	Question ID : 4410091225035 Correct Option : 4
Q.83 If $\left(\frac{7}{11}\right)^{k-5} = \left(\frac{11}{7}\right)^{k-9}$, find the value of 2^k. Ans 1. 32 2. 256 3. 128 ✓ 4. 64	Question ID : 441009928789 Correct Option : 3
Q.84 This question is based on the following words. (Left) ONE TWO BEN MUG (Right) If 'C' is added before each word, which of these words will form meaningful English word(s)? Ans 1. Only ONE ✓ 2. Only BEN 3. Both MUG and ONE 4. Both ONE and TWO	Question ID : 441009880158 Correct Option : 1
Q.85 Find the value of $\frac{\sqrt{0.01}}{\sqrt{0.0025}}$. Ans 1. 22 2. 2 ✓ 3. 16 4. 7	Question ID : 441009928427 Correct Option : 2

Q.86 A cyclist travels at 18 km/hr for 2.5 hours. What distance does he cover? Ans 1. 48 km 2. 45 km ✓ 3. 40 km 4. 43 km	Question ID : 4410091195650 Correct Option : 2
Q.87 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. GFI ✓ 2. LJN 3. AYC 4. USW	Question ID : 441009820966 Correct Option : 1
Q.88 In a certain code language, NOSE is written as EPTN and NOTE as EPUN. How will NAME be written in the same code? Ans 1. EMAN 2. EBNN ✓ 3. NBNE 4. NAME	Question ID : 441009813024 Correct Option : 2
Q.89 The sum of the age of A and 5 times the age of B is 36 years. When 3 times the age of A is added to 7 times the age of B, the result is 62 years. The sum of the ages (in years) of A and B is: Ans 1. 16 2. 13 ✓ 3. 18 4. 12	Question ID : 441009281324 Correct Option : 2
Q.90 Which of the following statements correctly describes the relationship among the incident ray, the refracted ray, and the normal at the point of incidence when light passes from one transparent medium to another? Ans 1. The incident ray, the refracted ray, and the normal all lie in the same plane at the point of incidence. ✓ 2. The normal is always at a 90° angle to the refracted ray. 3. Only the incident and refracted rays lie in the same plane, excluding the normal. 4. They all travel in different directions randomly.	Question ID : 4410091205716 Correct Option : 1

Q.91 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 conclusion(s) logically follow(s) from the statements.

Question ID :
4410091198627
Correct Option : 4

Statements:

All flies are insects.
All insects are lasers.

Conclusions:

- (I) Some lasers are insects.
(II) All flies are lasers.

Ans

1. Neither conclusion (I) nor (II) follows.
2. Only conclusion (I) follows.
3. Only conclusion (II) follows.

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

Q.92 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

Question ID :
4410091205881
Correct Option : 2

(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 to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(198, 170, 142)
(214, 186, 158)

Ans

1. (168, 140, 102)
2. (142, 114, 86) ✓
3. (116, 98, 86)
4. (235, 207, 169)

Q.93 Three friends A, B, and C started a business by investing ₹6,000, ₹8,000, and ₹10,000 respectively. If their total profit at the end of the year is ₹12,000, what is C's share?

Question ID :
4410091195593
Correct Option : 1

Ans

1. ₹5,000 ✓
2. ₹4,500
3. ₹5,500
4. ₹4,000

Q.94 What is the mean of the following distribution?

Question ID :
441009928766
Correct Option : 4

Marks	14	37	60	79	97
No. of Students	11	41	56	55	32

Ans

1. 88
2. 60
3. 86
4. 64 ✓

Q.95 Who has written the book 'Siddhartha: The Boy Who Became the Buddha' (Novel) which was awarded with 2025 Sahitya Akademi Yuva Puraskar in English? Ans 1. Anurag Bhaskar 2. Koushik Goswami 3. Harleen Kaur 4. Advait Kottary ✓	Question ID : 4410091213517 Correct Option : 4
Q.96 This question is based on the following words. PAN YEW CRY URN How many letters are there in the English alphabetical order between the second letter of the second word from the right and the third letter of the second word from the left? Ans 1. 8 2. 4 ✓ 3. 5 4. 6	Question ID : 441009821552 Correct Option : 2
Q.97 Which of the following Amendments has put a constitutional obligation upon states to enact the Panchayati Raj Acts as per the provisions of Part IX of the Indian Constitution? Ans 1. A. 74th Amendment 1992 2. B. 91st Amendment 2003 3. C. 86th Amendment 2002 4. D. 73rd Amendment 1992 ✓	Question ID : 4410091225164 Correct Option : 4
Q.98 What happens when the vibration of a sound source becomes faster? Ans 1. The frequency and pitch both decrease. 2. The frequency and pitch both increase. ✓ 3. The frequency increases, but pitch decreases. 4. The pitch stays the same regardless of the vibration speed.	Question ID : 4410091205842 Correct Option : 2
Q.99 A, B, C, D, P, Q and R are sitting around a circular table facing the centre of the table. A sits to the immediate left of R. B sits to the immediate left of D. D sits second to the left of Q. P sits third to the left of R. Who sits fourth to the right of C? Ans 1. D 2. A 3. Q ✓ 4. B	Question ID : 4410091198568 Correct Option : 3

Q.100 If 'I' stands for '+', 'J' stands for '×', 'K' stands for '÷', and 'L' stands for '−', then what will come in place of the question mark (?) in the following equation?

$$6\ K\ 2\ J\ 4\ L\ 3\ I\ 9 = ?$$

Ans

1. 26
2. 30
3. 23
4. 18 ✓

Question ID :
4410091205830
Correct Option : 4