



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - ०३/२०२५ - CEN - 03/2025
Recruitment for Paramedical Categories



RRB PARAMEDICAL 2025

ECG Technician

Paramedical Categories | CEN 03/2025

ENGLISH ANSWER KEY

Official Answer Key

Complete Paper · Date not recorded

Post	ECG Technician
Questions	100 per paper
Marking	+1 correct / -1/3 wrong
Duration	90 minutes
Sections	Questions 100

Date and shift of this paper were not recorded with the saved sheet; question order follows RRB question IDs.

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

HOW TO USE THIS BOOK

- 1 Open the INDEX on the next page.
- 2 Click any row to jump straight to that date and shift.
- 3 The correct option of every question is ticked in green.
- 4 Use the bookmarks panel of your PDF reader to move between shifts.

Check your marks, normalized score and zone-wise rank free at
rank.qmaths.in

Blackbook

Score & Rank Calculator · rank.qmaths.in

Compiled 27 October 2026

INDEX · Click any row to open that paper

RRB Paramedical 2025 - ECG Technician (English) - 1 paper

PAPER	DATE	TIME	QUESTIONS	PAGE
Paper 1	Date not recorded	Shift not recorded	100	3



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

सी ई एन - ०३/२०२५ - CEN - 03/2025

Recruitment for Paramedical Categories



PAPER 1 of 1 · ECG Technician · English

Exam	RRB Paramedical 2025 (CEN 03/2025)
Post	ECG Technician
Test Date	Date not recorded
Test Time	Shift not recorded
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 : Questions

Q.1 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. C is kept second from the top. Only three boxes are kept between D and C. G is kept immediately below F but above E. B is not kept above E. How many boxes are kept between G and A?

Ans

1. Four
2. One
3. Three

4. Two ✓

Question ID :
4410091173974
Correct Option : 4

Q.2 In a certain code language, $A + B$ means 'A is the sister of B', $A - B$ means 'A is the brother of B', $A \times B$ means 'A is the wife of B', $A \div B$ means 'A is the father of B'. Based on the above, how is T related to K if ' $T \div G + D - M \times K$ '?

Ans

1. Brother
2. Father
3. Wife's brother

4. Wife's father ✓

Question ID :
4410091189784
Correct Option : 4

Q.3 A car of mass 1000 kg moves with a velocity of 20 m/s. The kinetic energy of the car is _____.

Ans

1. 2×10^4 J
2. 2×10^5 J ✓
3. 2×10^6 J
4. 2×10^7 J

Question ID :
4410091256256
Correct Option : 2

Q.4 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged? $20 + 12 \times 3 - 8 \div 4 = ?$

Ans

1. 45
2. 46
3. 47

4. 48 ✓

Question ID :
4410091265102
Correct Option : 4

Q.5 In a quadrilateral ABCD such that AB = 0.3 m, BC = 0.4 m and $\angle ABC = 90^\circ$, if AD = DC = 0.4 m and other angles are not right angles, then the area (in cm², rounded off to the nearest integer) of quadrilateral ABCD is: Ans 1318 1323 1380 1381 ✓	Question ID : 4410091540014 Correct Option : 4
Q.6 What is the usual relationship between pulse rate and temperature in a normal individual? Ans - Pulse rate decreases with temperature - Pulse rate fluctuates randomly Pulse rate increases with temperature ✓ - Pulse rate remains unchanged	Question ID : 4410091547181 Correct Option : 3
Q.7 What is the most appropriate initial management for a patient presenting with symptomatic bradyarrhythmia? Ans Administration of atropine ✓ - Immediate defibrillation - Intravenous diuretics - Oral anticoagulants	Question ID : 4410091550613 Correct Option : 1
Q.8 For a patient bitten by a snake, what is the rationale for keeping the limb at heart level? Ans - To help with breathing - To prevent blood clotting To reduce spread of venom ✓ - To speed up blood flow to the heart	Question ID : 4410091550738 Correct Option : 3
Q.9 What is the primary purpose of ECG recording during code blue in the ICU? Ans - To check the temperature - To examine the eyesight - To measure the blood pressure To monitor the heart rhythm ✓	Question ID : 4410091551194 Correct Option : 4
Q.10 A patient presents with muscle weakness, and the ECG shows flattened T waves and prominent U waves. Which electrolyte imbalance is most probable? Ans - Hypercalcemia - Hyperkalemia Hypokalemia ✓ - Hyponatremia	Question ID : 4410091551206 Correct Option : 3

Q.11 After a stress test ECG, which finding would require immediate medical attention during the recovery phase? Ans 1. Mild fatigue 2. Mild muscle soreness 3. Persistent arrhythmias on ECG ✓ 4. Slight increase in blood pressure	Question ID : 4410091551371 Correct Option : 3
Q.12 Ventricular fibrillation waves on ECG are best described as: Ans 1. Disorganised ✓ 2. Regular 3. Sawtooth pattern waves 4. Straight line	Question ID : 4410091551822 Correct Option : 1
Q.13 A patient presents with chest pain and ST elevation in leads II, III, and aVF. According to the universal definition of MI, which coronary artery is most likely involved, and what is the ECG diagnosis? Ans 1. Left anterior descending artery; anterior STEMI 2. Left circumflex artery; lateral STEMI 3. Posterior descending artery; posterior STEMI 4. Right coronary artery; inferior STEMI ✓	Question ID : 4410091555853 Correct Option : 4
Q.14 In the context of CVS monitoring, which finding in myxedema patients could be explained by their ECG pattern? Ans 1. Atrial flutter due to enhanced automaticity 2. Bradycardia due to decreased metabolic rate ✓ 3. Tachycardia due to increased sympathetic tone 4. Ventricular fibrillation due to electrolyte imbalance	Question ID : 4410091555909 Correct Option : 2
Q.15 What is a typical ECG finding in patients with cerebral infarct? Ans 1. Prolonged PR interval 2. T wave inversion ✓ 3. Tall P waves 4. U wave presence	Question ID : 4410091555912 Correct Option : 2
Q.16 What does the QT interval on a normal ECG primarily represent? Ans 1. Atrial contraction only 2. Atrial depolarisation and repolarisation 3. Ventricular contraction only 4. Ventricular depolarisation and repolarisation ✓	Question ID : 4410091558033 Correct Option : 4

Q.17 In a patient with suspected angina, which ECG feature would prompt urgent evaluation for possible myocardial infarction rather than typical angina? Ans 1. Isolated T wave flattening 2. Persistent ST elevation ✓ 3. Sinus tachycardia 4. Transient ST depression	Question ID : 4410091558052 Correct Option : 2
Q.18 How many standard limb leads are used in a basic ECG procedure? Ans 1. 2 2. 3 ✓ 3. 4 4. 5	Question ID : 4410091558140 Correct Option : 2
Q.19 Which of the following best describes the path of a light ray as it enters and then exits a glass slab from air? Ans 1. Bends away from the normal, then towards the normal 2. Bends towards the normal at both surfaces 3. Bends towards the normal, then away from the normal ✓ 4. Does not bend at all but shifts sideways	Question ID : 4410091559555 Correct Option : 3
Q.20 According to Rutherford's model, where is most of the mass of an atom concentrated? Ans 1. Electron cloud 2. Nucleus ✓ 3. Orbitals 4. Proton shell	Question ID : 4410091560352 Correct Option : 2
Q.21 Which of the following best describes the relationship between autotrophs and heterotrophs? Ans 1. Autotrophs depend on heterotrophs for enzymes 2. Both autotrophs and heterotrophs produce their own food 3. Heterotrophs depend directly or indirectly on autotrophs for survival ✓ 4. Heterotrophs directly produce energy for autotrophs	Question ID : 4410091560783 Correct Option : 3
Q.22 A water purification plant uses a process to remove harmful ions. Which type of reaction would most likely be used for this purpose? Ans 1. Combustion reaction 2. Decomposition reaction 3. Double displacement reaction ✓ 4. Synthesis reaction	Question ID : 4410091564445 Correct Option : 3

Q.23 The average of the marks of 20 students is 72. Later, it was found that the marks of two students were wrongly entered as 48 and 56 instead of 84 and 65. Find the correct average. Ans 1. 71.25 2. 74.25 ✓ 3. 77.25 4. 79.25	Question ID : 4410091568475 Correct Option : 2
Q.24 The Department of Telecommunications (DoT) organised the 9th edition of India Mobile Congress (IMC 2025) in collaboration with which body? Ans 1. Cellular Operators Association of India (COAI) ✓ 2. Confederation of Indian Industry (CII) 3. International Telecommunication Union (ITU) 4. NASSCOM	Question ID : 4410091569446 Correct Option : 1
Q.25 In December 2025 , Ethiopia conferred its highest national award on Prime Minister Narendra Modi. What was the award called? Ans 1. Great Honour Nishan ✓ 2. Order of Makarios III 3. Order of Oman (First Class) 4. Order of the Nile	Question ID : 4410091569494 Correct Option : 1
Q.26 Which of the following particles is essential for determining the isotope of an element? Ans 1. Electron 2. Neutron ✓ 3. Positron 4. Proton	Question ID : 4410091569793 Correct Option : 2
Q.27 During an acute myocardial infarction, which change in coronary circulation most directly impairs myocardial function? Ans 1. Decreased oxygen supply ✓ 2. Increased arterial pressure 3. Increased preload 4. Increased venous return	Question ID : 4410091570409 Correct Option : 1
Q.28 In a patient with a normal temperature and pulse but low blood pressure, which clinical condition should be considered first? Ans 1. Arrhythmia 2. Febrile illness 3. Hypertension 4. Hypovolemia ✓	Question ID : 4410091570413 Correct Option : 4

Q.29 What is the term for moving a patient from a bed to a wheelchair safely? Ans 1. Transfer ✓ 2. Transformation 3. Transfusion 4. Translation	Question ID : 4410091570418 Correct Option : 1
Q.30 Which segment is primarily analyzed to diagnose an ST-elevation myocardial infarction (STEMI)? Ans 1. P wave 2. PR interval 3. ST segment ✓ 4. T wave	Question ID : 4410091570443 Correct Option : 3
Q.31 What ECG change might be seen after administration of calcium channel blockers? Ans 1. Bradycardia ✓ 2. QRS widening 3. Sinus tachycardia 4. Ventricular fibrillation	Question ID : 4410091570511 Correct Option : 1
Q.32 Which of the following is most likely to trigger a premature ventricular contraction? Ans 1. Electrolyte imbalance ✓ 2. Increased vagal tone 3. Normal conduction pathway 4. Slow heart rate	Question ID : 4410091570530 Correct Option : 1
Q.33 During ECG monitoring, which drug is most likely to cause bradycardia? Ans 1. Atropine 2. Dobutamine 3. Epinephrine 4. Propranolol ✓	Question ID : 4410091570544 Correct Option : 4
Q.34 Which combination of symptoms and ECG findings is most indicative of myocardial infarction? Ans 1. Chest pain with ST elevation ✓ 2. Dizziness with prolonged PR interval 3. Fatigue with sinus bradycardia 4. Palpitations with normal ECG	Question ID : 4410091570663 Correct Option : 1
Q.35 What is the best way to prevent electrode contact artifacts when performing an ECG? Ans 1. Applying conductive gel to the skin ✓ 2. Placing electrodes over thick clothing 3. Using dry electrodes 4. Using worn-out electrodes	Question ID : 4410091570693 Correct Option : 1

Q.36 Which ECG change is most commonly associated with myocardial ischemia? Ans 1. Prolonged QT interval 2. ST segment depression ✓ 3. Tall T waves 4. U waves	Question ID : 4410091570850 Correct Option : 2
Q.37 Which component of the ECG lead system is responsible for detecting electrical impulses from the heart? Ans 1. Battery 2. Display screen 3. Electrode ✓ 4. Monitor	Question ID : 4410091570866 Correct Option : 3
Q.38 What is the standard voltage calibration setting for an ECG machine to ensure accurate readings? Ans 1. 10 mm/mV ✓ 2. 15 mm/mV 3. 20 mm/mV 4. 5 mm/mV	Question ID : 4410091570868 Correct Option : 1
Q.39 During ECG machine calibration, what is the standard voltage signal used to check the sensitivity? Ans 1. 1 millivolt ✓ 2. 10 millivolts 3. 2 millivolts 4. 5 millivolts	Question ID : 4410091571083 Correct Option : 1
Q.40 What is the main purpose of the Einthoven triangle in electrophysiology? Ans 1. To calculate heart rate 2. To locate the electrical axis of the heart ✓ 3. To measure blood pressure 4. To visualize heart chambers	Question ID : 4410091571179 Correct Option : 2
Q.41 Which type of ECG lead requires a reference electrode placed at a distant site from the recording electrode? Ans 1. Bipolar lead 2. Tetrapolar lead 3. Tripolar lead 4. Unipolar lead ✓	Question ID : 4410091571187 Correct Option : 4

Q.42 What is the significance of a prolonged PR interval? Ans 1. Atrial fibrillation 2. First degree heart block ✓ 3. Normal conduction 4. Ventricular hypertrophy	Question ID : 4410091571249 Correct Option : 2
Q.43 What is the primary purpose of a stress test in cardiac care? Ans 1. To assess kidney performance 2. To check lung capacity 3. To evaluate heart function under stress ✓ 4. To measure blood sugar levels	Question ID : 4410091571261 Correct Option : 3
Q.44 Which type of stress test involves the use of medication instead of physical exercise? Ans 1. Echocardiogram 2. Exercise stress test 3. Holter monitoring 4. Pharmacological stress test ✓	Question ID : 4410091571263 Correct Option : 4
Q.45 During a treadmill stress test, what action should be taken if a patient reports chest pain? Ans 1. Ignore the complaint 2. Increase the speed 3. Lower the incline 4. Stop the test immediately ✓	Question ID : 4410091571265 Correct Option : 4
Q.46 In cricket, which of the following terms is used when a bowler dismisses three batsmen with consecutive deliveries? Ans 1. Century 2. Duck 3. Hat-trick ✓ 4. Overthrow	Question ID : 4410091571748 Correct Option : 3
Q.47 Which state among the following sets a world record by installing over 45,000 solar agricultural pumps in a month, enhancing irrigation and farmer income? Ans 1. Madhya Pradesh 2. Maharashtra ✓ 3. Punjab 4. Telangana	Question ID : 4410091572082 Correct Option : 2

Q.48 Which body had the final authority to approve India's Five-Year Plans? Ans 1. Cabinet Committee on Economic Affairs 2. Economic Advisory Council 3. Finance Commission 4. National Development Council ✓	Question ID : 4410091573249 Correct Option : 4
Q.49 The provision related to the constitution of the Central Information Commission (CIC) in the RTI Act, 2005 is contained in which of the following sections? Ans 1. Section 12 ✓ 2. Section 15 3. Section 4 4. Section 5	Question ID : 4410091573773 Correct Option : 1
Q.50 Who among the following led the Santhal Revolt against British rule and zamindari oppression? Ans 1. Birsa Munda 2. Chapekar Brothers 3. Murmu Brothers ✓ 4. Tantia Bhil	Question ID : 4410091574063 Correct Option : 3
Q.51 Which component of the ECG is most useful in detecting atrial enlargement? Ans 1. P wave ✓ 2. QRS complex 3. ST segment 4. T wave	Question ID : 4410091576222 Correct Option : 1
Q.52 The primary function of the cardiovascular system is to: Ans 1. Control body temperature only 2. Generate nerve impulses 3. Produce hormones 4. Transport oxygen and nutrients to tissues ✓	Question ID : 4410091578985 Correct Option : 4
Q.53 Gas exchange in the lungs occurs at the level of the: Ans 1. Alveoli ✓ 2. Bronchi 3. Bronchioles 4. Trachea	Question ID : 4410091579002 Correct Option : 1
Q.54 Which ECG change is most characteristic of an acute myocardial infarction? Ans 1. Flattened P waves in multiple leads 2. Narrow QRS complex with normal rhythm 3. Shortened PR interval with normal QRS 4. ST segment elevation in affected leads ✓	Question ID : 4410091579120 Correct Option : 4

Q.55 ST elevation in leads V1 to V4 most commonly indicates infarction of which wall of the heart? Ans 1. Anterior wall ✓ 2. Inferior wall 3. Lateral wall 4. Posterior wall	Question ID : 4410091579122 Correct Option : 1
Q.56 ECG changes in leads II, III, and aVF are characteristic of infarction involving which myocardial wall? Ans 1. Anterior wall 2. Inferior wall ✓ 3. Lateral wall 4. Septal wall	Question ID : 4410091579125 Correct Option : 2
Q.57 Which ECG feature is most suggestive of a premature atrial contraction? Ans 1. Absent T wave with ST segment change 2. Early P wave with normal QRS complex ✓ 3. Prolonged PR interval with normal QRS complex 4. Wide QRS complex without P wave	Question ID : 4410091579135 Correct Option : 2
Q.58 Tall, peaked P waves on ECG are most commonly associated with: Ans 1. Inferior wall MI 2. Left atrial enlargement 3. Left ventricular hypertrophy 4. Right atrial enlargement ✓	Question ID : 4410091581583 Correct Option : 4
Q.59 ECG is most useful in the diagnosis of which cardiac condition? Ans 1. Cardiac arrhythmias ✓ 2. Heart murmur 3. Pericardial effusion 4. Valvular thickness	Question ID : 4410091581636 Correct Option : 1
Q.60 Which ECG change is most commonly seen during an episode of angina pectoris? Ans 1. Prolonged PR interval 2. ST segment depression ✓ 3. ST segment elevation 4. Wide QRS complex	Question ID : 4410091581888 Correct Option : 2
Q.61 Who is considered the father of electrocardiography? Ans 1. Claude Bernard 2. Willem Einthoven ✓ 3. William Edith 4. William Harvey	Question ID : 4410091581950 Correct Option : 2

Q.62 The ECG machine mainly works on the principle of: Ans 1. Conversion of heat energy into electrical signals 2. Conversion of light energy into electrical signals 3. Conversion of magnetic fields into electrical signals 4. Detection and amplification of bioelectric potentials ✓	Question ID : 4410091581952 Correct Option : 4
Q.63 Left ventricular hypertrophy on ECG is commonly indicated by: Ans 1. Flattened T waves 2. Low voltage QRS complexes 3. Short QT interval 4. Tall R waves in left chest leads ✓	Question ID : 4410091583544 Correct Option : 4
Q.64 A patient has an ECG showing a regular series of P waves followed by QRS complexes. Occasionally, a QRS complex is missing. What should be assessed first when analyzing this ECG? Ans 1. Heart rate and rhythm ✓ 2. QRS voltage 3. ST segment 4. T wave morphology	Question ID : 4410091583553 Correct Option : 1
Q.65 In standard ECG calibration, 1 mV of electrical signal is represented by: Ans 1. 10 mm ✓ 2. 15 mm 3. 20 mm 4. 5 mm	Question ID : 4410091583564 Correct Option : 1
Q.66 How many standard limb leads are used in routine ECG recording? Ans 1. Six 2. Three ✓ 3. Twelve 4. Two	Question ID : 4410091583594 Correct Option : 2
Q.67 After removal of a Holter monitor, the most important next step is to: Ans 1. Allow the patient to bathe immediately 2. Analyze and interpret the recorded ECG data ✓ 3. Discard the recording electrodes 4. Reapply the monitor	Question ID : 4410091583622 Correct Option : 2
Q.68 Which device is used for long-term intermittent ECG recording activated by the patient? Ans 1. Cardiac monitor 2. Defibrillator 3. Event recorder ✓ 4. Stress test system	Question ID : 4410091583646 Correct Option : 3

Q.69 Which statement best distinguishes primitive subsistence farming from commercial farming in India? Ans 1. Commercial farming avoids the use of modern technology 2. Commercial farming relies mainly on monsoon rainfall 3. Primitive farming emphasises family consumption needs ✓ 4. Primitive farming focuses on market-oriented surplus production	Question ID : 4410091590862 Correct Option : 3
Q.70 If a bulb is designed to work at 12 volts and 0.5 amperes, what should be the resistance of the filament according to Ohm's Law? Ans 1. 0.041 ohms 2. 24 ohms ✓ 3. 6.5 ohms 4. 6 ohms	Question ID : 4410091640634 Correct Option : 2
Q.71 If the frequency of a sound wave is 10 Hz, its time period is: Ans 1. 0.01 s 2. 0.1 s ✓ 3. 1 s 4. 10 s	Question ID : 4410091646551 Correct Option : 2
Q.72 Match the heart chamber with the type of blood it handles: (A) Right atrium (B) Left ventricle (C) Left atrium (D) Right ventricle Ans 1. A-De-oxygenated, B-De-oxygenated, C-Oxygen-rich, D-Oxygen-rich 2. A-De-oxygenated, B-Oxygen-rich, C-Oxygen-rich, D-De-oxygenated ✓ 3. A-Oxygen-rich, B-De-oxygenated, C-De-oxygenated, D-Oxygen-rich 4. A-Oxygen-rich, B-Oxygen-rich, C-De-oxygenated, D-De-oxygenated	Question ID : 4410091695999 Correct Option : 2
Q.73 If a mammal species evolved without the ability for the penis to become erect, what direct impact might this have on sexual reproduction? Ans 1. It would make breastfeeding impossible 2. It would prevent the transfer of sperms ✓ 3. It would shorten the time the baby spends in the mother's body 4. It would speed up the maturation of female organs	Question ID : 4410091696954 Correct Option : 2
Q.74 Which principle of hospital practice directly minimizes cross-contamination when the same healthcare worker attends multiple patients sequentially? Ans 1. Routine antibiotic prophylaxis for admitted patients 2. Selective use of personal protective equipment only for isolation cases 3. Standard precautions applied uniformly irrespective of diagnosis ✓ 4. Terminal cleaning performed at end of duty hours	Question ID : 4410091702698 Correct Option : 3

Q.75 Which ECG feature most accurately identifies Mobitz Type II second-degree AV block? Ans 1. Complete atrioventricular dissociation 2. Progressive PR interval lengthening before dropped beat 3. Shortened PR interval 4. Sudden dropped QRS complexes without prior PR prolongation ✓	Question ID : 4410091703121 Correct Option : 4
Q.76 Tall tented T waves in hyperkalemia occur primarily due to: Ans 1. Acceleration of ventricular repolarization ✓ 2. Delayed atrial depolarization 3. Prolongation of ventricular depolarization 4. Suppression of sinoatrial node	Question ID : 4410091703192 Correct Option : 1
Q.77 Which ECG change most reliably indicates quinidine toxicity? Ans 1. Peaked T waves 2. Prolonged QT interval ✓ 3. Scooped ST depression 4. Shortened PR interval	Question ID : 4410091704782 Correct Option : 2
Q.78 In an asymptomatic endurance athlete, sinus bradycardia persists even during mild exertion. Which mechanism best explains this finding without indicating pathology? Ans 1. AV nodal conduction delay 2. Enhanced ventricular automaticity 3. Increased vagal suppression of SA node firing ✓ 4. Prolonged ventricular refractoriness	Question ID : 4410091704811 Correct Option : 3
Q.79 During continuous ECG monitoring following subarachnoid hemorrhage, transient deep T-wave inversions are most accurately explained by which underlying mechanism? Ans 1. Direct electrolyte loss affecting ventricular action potential 2. Intrinsic conduction system degeneration 3. Primary ischemia of coronary microvasculature 4. Sympathetic overdrive causing myocardial repolarization injury ✓	Question ID : 4410091704850 Correct Option : 4
Q.80 During high-dose vasopressor therapy, which ECG change most reliably indicates supply-demand ischemia due to increased afterload? Ans 1. PR interval shortening 2. QT interval shortening 3. ST segment depression ✓ 4. Tall P waves	Question ID : 4410091704861 Correct Option : 3

Q.81 Which ECG change best differentiates left ventricular hypertrophy from simple increased cardiac workload without structural enlargement? Ans 1. Increased QRS voltage with secondary ST-T changes ✓ 2. Isolated PR interval prolongation 3. Mild axis deviation with normal QRS amplitude 4. Uniform ST depression without voltage change	Question ID : 4410091704910 Correct Option : 1
Q.82 Which ECG finding most reliably indicates myocardial ischemia rather than established myocardial infarction? Ans 1. Deep Q waves in contiguous leads 2. Fixed T wave inversion lasting several days 3. Persistent ST elevation without loss of R waves 4. Reversible ST segment deviation without pathological Q waves ✓	Question ID : 4410091704932 Correct Option : 4
Q.83 The primary purpose of the differential amplifier in an ECG machine is to: Ans 1. Amplify true cardiac signals while rejecting common electrical noise ✓ 2. Convert analog signals into digital format 3. Increase overall signal amplitude for clearer waveforms 4. Stabilize baseline drift during long recordings	Question ID : 4410091704942 Correct Option : 1
Q.84 Which maintenance practice most directly prevents signal attenuation and waveform distortion during ECG recording? Ans 1. Frequent adjustment of paper speed settings 2. Periodic software updates alone 3. Regular inspection and replacement of electrode cables ✓ 4. Routine recalculation of heart rate	Question ID : 4410091705007 Correct Option : 3
Q.85 During ECG recording, which change most strongly suggests a therapeutic digitalis effect rather than myocardial ischemia? Ans 1. Down-sloping ST depression with preserved T-wave polarity ✓ 2. Flattened ST segment with Q-wave formation 3. Horizontal ST depression with symmetrical T-wave inversion 4. ST elevation in contiguous precordial leads	Question ID : 4410091705250 Correct Option : 1
Q.86 Which clinical scenario most strongly justifies Holter monitoring rather than a routine resting ECG? Ans 1. Intermittent palpitations occurring unpredictably over several days ✓ 2. Known bundle branch block without symptoms 3. Persistent chest pain relieved by rest 4. Stable sinus bradycardia on repeated ECGs	Question ID : 4410091705346 Correct Option : 1

Q.87 Which complication is most realistically associated with Holter monitoring? Ans 1. Electrolyte imbalance 2. Induction of malignant arrhythmia 3. Localized skin irritation at electrode sites ✓ 4. Significant radiation exposure	Question ID : 4410091705354 Correct Option : 3
Q.88 Which frontal plane QRS axis range is considered normal in a healthy adult ECG? Ans 1. Between -180° and -90° 2. Between -30° and $+90^{\circ}$ ✓ 3. Between $+90^{\circ}$ and $+180^{\circ}$ 4. Between -90° and -30°	Question ID : 4410091705372 Correct Option : 2
Q.89 Which description best represents a normal ST segment on ECG? Ans 1. Consistently depressed below baseline 2. Isoelectric line continuous with the end of QRS complex ✓ 3. Markedly sloping upward before T wave 4. Slightly elevated above baseline in all leads	Question ID : 4410091705396 Correct Option : 2
Q.90 Who headed the Committee of Ministers on the Augmentation of Financial Resources of Urban Local Bodies, formed in India in 1963? Ans 1. A.P. Jain 2. John Matthai 3. P.K. Wattal 4. Rafiq Zakaria ✓	Question ID : 441009189764 Correct Option : 4
Q.91 Sinus bradycardia is associated with: Ans 1. AF 2. LBBB 3. Respiratory sinus rhythm ✓ 4. RVH	Question ID : 441009219987 Correct Option : 3
Q.92 Digitalis exerts its effect primarily on: Ans 1. Endocardial contraction 2. Endocardial systole 3. Myocardial depolarization ✓ 4. Myocardial repolarization	Question ID : 441009225121 Correct Option : 3
Q.93 Which deposits occur in sands of valley floors and the base of hills? Ans 1. Alluvial Deposits ✓ 2. Iron ore Deposits 3. Manganese Deposits 4. Non-ferrous Deposits	Question ID : 44100924803 Correct Option : 1

Q.94 Sachin deposited a sum of ₹38,975 at 20% rate of interest per annum, compounded annually. The total amount received by Sachin after 2 years is: Ans 1. ₹55,662 2. ₹55,895 3. ₹56,124 ✓ 4. ₹56,199	Question ID : 441009571881 Correct Option : 3
Q.95 1 min 45 sec Ans 1. 1 min 45 sec 2. 2 min 5 sec 3. 1 min 30 sec ✓ 4. 1 min 28 sec	Question ID : 441009641664 Correct Option : 3
Q.96 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 one out is not based on the number of consonants/vowels or their position in the letter cluster) 8170 Ans 1. AS:EZ ✓ 2. CM:GQ 3. DH:HL 4. PJ:TN	Question ID : 441009782037 Correct Option : 1
Q.97 The position(s) of how many letters will remain unchanged if each letter in the word MATCHBOX is arranged in the English alphabetical order? Ans 1. None 2. One ✓ 3. Three 4. Two	Question ID : 441009789253 Correct Option : 2
Q.98 Using the 300 method, how many large squares between two consecutive R waves corresponds to a heart rate of 75 bpm? Ans 1. 2 large square 2. 3 large square 3. 4 large square ✓ 4. 5 large square	Question ID : 441009827131 Correct Option : 3
Q.99 During a stress test, which of the following symptoms is a contraindication to continue exercise? Ans 1. Chest pain or severe shortness of breath ✓ 2. Increased heart rate 3. Mild fatigue 4. Sweating	Question ID : 441009827394 Correct Option : 1

Q.100

$$\frac{3}{10}$$

Ans

1. $\frac{3}{10}$ ✓

2. $\frac{10}{7}$

3. $\frac{2}{15}$

4. $\frac{4}{9}$

Question ID :
441009912337
Correct Option : 1