



All India Institute of Medical Sciences, Jodhpur

Indicative Syllabus for the Post of Electrocardiograph Technical Assistant

(Syllabus is only indicative. The questions can assess any aspect of knowledge, aptitude, attitude and practical skills, which is expected from a trained person to work efficiently at the advertised post)

Section A

40% Questions covering the following topics:-

General Intelligence & Reasoning: It would include questions of non-verbal type. The test will include questions on similarities and differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discriminating observation, relationship concepts, figure classification, arithmetical number series, non-verbal series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, arithmetical computation and other analytical functions.

Quantitative Aptitude: This paper will include questions on problems relating to Number Systems, Computation of Whole Numbers, Decimals and Fractions and relationship between Numbers, Fundamental arithmetical operations, Percentages, Ratio and Proportion, Averages, Interest, Profit and Loss, Discount, use of Tables and Graphs, Mensuration, Time and Distance, Ratio and Time, Time and Work, etc.

Computer Knowledge: Candidates' understanding of the Basics of Computer Knowledge, its parts, functions, emails, MS office, etc.

Section B (SUBJECT KNOWLEDGE)

60% Questions to be based on the subject specific to the post with following topics:-

1. Anatomy & Physiology of Cardiovascular system.
2. Basics of computer science and biostatistics.
3. Equipment details and maintenance of ECG, Holter, Stress ECG (TMT), Bed side Monitor, Defibrillators, pacemakers.
4. Principles of
 - a. Elementary Physics
 - b. Galvanometer
 - c. Einthoven's law
 - d. Hexaxial system
5. Interpretation of
 - a. Normal ECG and artefacts
 - b. ECGs of acute cardiac emergencies – Acute coronary syndrome, Arrhythmias, conduction defects, cardiac tamponade.
6. Stress ECG – Protocols, procedure, Indications and contraindications.
7. Holter recording – Protocols and analysis.
8. Defibrillators - Indications and contraindications.
9. Pacemakers – Indications, various modes, ECG interpretation.
10. First Aid Management of cardiac emergencies.

