

## Syllabus for written examination for the post of Junior Technician - Physics

The selection process consists of two stages. All candidates must appear for the Laboratory Skill Test. The candidates will be shortlisted to write the written exam on the basis of successful performance in the skill test.

Written test will be one-mark MCQs based on the following topics

S.No.	Topic Subjects	Syllabus	Weightage of marks
1	English language aptitude	Grammar, Sentence correction/completion, vocabulary, synonyms, antonyms and general aptitude	20%
2	Physics Theory	<ul style="list-style-type: none"><li>• Measurement, Units &amp; Dimensions</li><li>• Kinematics, Laws of Motion, Work, Energy and Power</li><li>• Motion of System of Particles and Rigid Body</li><li>• Mechanics of Solids and Fluids</li><li>• Heat and Thermodynamics</li><li>• Waves &amp; Oscillations</li><li>• Electrostatics, Current electricity, Magnetic Effects of Current and Magnetism</li><li>• Electromagnetic Induction, Alternating Current and Electromagnetic waves</li><li>• Optics: Geometrical and Wave Optics</li><li>• Modern Physics: Dual Nature of Matter and Radiations, Atomic Physics, Nuclear Physics</li><li>• Solids and Semiconductor Devices</li><li>• Principles of Communication</li><li>• Basic Solid State Physics</li></ul>	40%
3	Physics Experiment	B. Sc. Level experiments followed by major Indian Universities on the following topics: <ul style="list-style-type: none"><li>• Mechanics</li><li>• Optics</li><li>• Electronics</li><li>• Modern Physics</li><li>• Basic Solid-State Physics</li></ul>	40%