

Selection Process for the post of Junior Technician [Physics]

(Staff Recruitment Advt. No: IITDH/ Admin/Staff Recruitment/26/2023-24 dated 12th September 2023)

All the shortlisted candidates are required to appear in person for the Written Test (s) scheduled on 17th November 2023 (Friday). The venue for Written Tests is IIT Dharwad, WALMI Campus, Belur Industrial Area, Near High Court Bench, Pune – Bengaluru Road, Dharwad, Karnataka.

Candidates securing minimum qualifying marks as laid down by the selection committee in Written test I shall be shortlisted for Written test II.

The final selection will be based on aggregate marks obtained from both the written tests (I & II) with weightage of 40% in Written Test I and 60% in Written Test II.

Examination Pattern:

Written Test -I (MCQ Type) (40% Weightage)

Section	Topics/Subjects	Time duration
1	General Ability Test	50 Minutes
2	Technical Questions	

Note: 0.25 Negative Marks for every wrong answer MCQ test.

Written Test-II (60% Weightage)

Section	Topics/ Subjects	Time Duration
3	Technical	30 Minutes
4	Technical Trade/Skill Test (Pen and Paper) (Questions basically linked to experiments)	80 Minutes

Note: 0.25 Negative Marks for every wrong answer in MCQ questions

Syllabus:

Section	Broad syllabus
1	General Awareness, Reasoning, Quantitative Aptitude, Communication Skills
2 & 3	Measurement, Units & Dimensions; Kinematics, Laws of Motion, Work, Energy and Power; Motion of System of Particles and Rigid Body; Mechanics of Solids and Fluids; General Properties of Matter; Heat and Thermodynamics; Waves & Oscillations; Mathematical Methods; Electrostatics, Current electricity, Magnetic Effects of Current and Magnetism; Electromagnetic Induction, Alternating Current and Electromagnetic waves; Optics: Geometrical and Wave Optics; Modern Physics: Dual Nature of Matter and Radiations, Atomic Physics, Nuclear Physics; Principles of Communication; Solid State Physics, Devices and Electronics.
4	B. Sc. Level experiments followed by recognized Indian Universities/Institutes on the topics that includes Mechanics; Optics; Electricity and Magnetism; Electronics; Modern Physics; Basic Solid State Physics; Heat and Thermodynamics.