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भारतीय प्रौद्योगिकी संस्थान धारवाड़

Indian Institute of Technology dhArwAD

WALMI Campus, Near High Court Bench,

PB Road, dhArwAD 580011, KarnATaka

## **Selection Process for the post of Junior Technician [Chemistry]**

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

All the shortlisted candidates are required to appear in person for the Written Test (s) scheduled on 25<sup>th</sup> November 2023 (Saturday). The venue for Written Test (s) 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	Chemical bonding, coordination chemistry, hydrocarbons, aromaticity, states of matter
3	Solution chemistry, electrochemistry, kinetics, thermodynamics, carbonyl compounds
4	Common named reactions and qualitative analysis in organic chemistry, organometallic compounds, bioinorganic chemistry, spectroscopy, and salt analysis