

## **Selection Process for the post of Junior Technical Superintendent [CSE]**

(Staff Recruitment Advt. No.: IITDh/Admin/SR/29/2024-25 dated 26th August 2024)

All the shortlisted candidates are required to appear in person for the Written Test (s) scheduled on 8<sup>th</sup> August 2025. The venue for the Written Test (s) is IIT 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	90 Minutes
2	Technical	

*Note: 60% of the marks will be deducted for every wrong answer in the MCQ test*

#### **Written Test-II (60% Weightage)**

Section	Topics/ Subjects	Time Duration
3	Technical (Written)	60 Minutes
4	Technical Trade/Skill Test (Computer based test)	75 Minutes

*Note: 60% of the marks will be deducted for every wrong answer in the MCQ test*

### **Syllabus:**

Section	Broad syllabus
1	Synonyms and Antonyms, Error Spotting/ Correction, Phrasal Verbs, Idioms, and Phrases, etc. Number Series, Letter Series, Coding-Decoding, Direction Sense, Logical Reasoning, Mental Reasoning, Percentage, Average, Profit & Loss, Ratio & Proportion, Speed, Distance and Time, Simple and Compound Interest, Simplification, Mathematical Reasoning.
2	<b>i) Computer Science fundamentals</b> Data Structures and basic algorithms, Operating Systems, Databases, Computer Organization and Architecture, Basic counting and probability, Networking Concepts: Network OSI layers, network security fundamentals <b>ii) Programming, Networking, Web Technologies, System administration and security</b> <ul style="list-style-type: none"> <li>At least one of the following languages: C, C++, Java, Python</li> <li>Web Technologies: HTML, CSS, PHP, JavaScript, SQL</li> <li>Hands on experience in creating custom websites.</li> <li>Programming with systems and shell: Linux, Bash script including pipes, filters, redirections, Sed and Awk, File handling from programs, Socket programming</li> <li>Computer Networks fundamentals.</li> <li>System administration: OS installation</li> <li>Desktop/Server/Peripherals: Linux system administration, maintenance and monitoring, etc.</li> <li>Virtualization: Install virtual machines on Linux/Windows servers; Exploiting multiple virtualization hypervisors - create and manage virtual machines (VMs) and Containers; manage storage in VM or Containers.</li> </ul>
3	Same as mentioned in Section 2 above. Focus on programming and data structures.
4	Same as mentioned in Section 2 above. Focus: compiler toolchains, C++ programming, Shell scripting, OS installation.