



Selection Process for the post of Junior Technical Superintendent (Postcode 12)

(Staff Recruitment Advt. No: IITDH/Admin/Staff Recruitment/25/2023-24 dated 1st February 2023)

All the shortlisted candidates are required to appear in person for the Written Test (s). 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 |
|---------|----------------------|
| 1 | General Ability Test |
| 2 | Technical Questions |

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

Written Test-II (60% Weightage)

| Section | Topics/ Subjects |
|---------|---|
| 3 | Technical |
| 4 | Technical Trade/Skill Test (Pen and Paper) |

Note: 0.25 Negative Marks for every wrong answer in MCQ questions, If any.

Syllabus:

| Section | Broad syllabus |
|---------|--|
| 1 | General Awareness, Reasoning, Quantitative Aptitude, Communication Skills |
| 2 | i) Computer Science fundamentals Data Structures and basic algorithms, Operating Systems, Databases, Networking Concepts: Network OSI layers, VLAN, SNMP, 802.11 protocols and architecture, network security fundamentals including firewall, IPS and wireless security protocols ii) Programming, Networking, Web Technologies System administration and security <ul style="list-style-type: none">• At least one of the following languages: C, C++, Java, Python• Web Technologies: HTML, CSS, PHP, JavaScript, SQL, ReactJS/NodeJ, Diango, hands on experience in creating custom websites.• Programming with systems and shell: Linux, Bash script including pipes, filters, redirections, Sed and Awk, File handling from programs, Socket programming• Network administration: VPN, DHCP, DNS, VLAN, Internet proxy• System administration: software installation and updates, security and firewalls, VM management, user management, LDAP, storage management etc.• Desktop/Server/Peripherals: Linux system administration, maintenance and monitoring, etc.• High Performance Computing (HPC): HPC System management tools; Job schedulers for HPC such as OpenPBS and Slurm; Cluster hardware knowledge; Familiarity with HPC storage and filesystems; Familiarity with high speed HPC networks such as |



| | |
|---|---|
| | <p>InfiniBand; Create and manage cluster policies.</p> <ul style="list-style-type: none">• 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.• Configuring and troubleshooting: fixing network connected devices both locally and remotely; network automation through open-source tools |
| 3 | Same as mentioned in Section 2 |
| 4 | Same as mentioned in Section 2 |