Non-Teaching Staff Recruitment
(Advertisement No. IITT/STAFFREC/02/2023 dated 23-08-2023)

Syllabus for JTS (Systems)

1. **Desktop/Server/Peripherals:** Linux system administration, maintenance and monitoring; Bash scripting, Powershell Scripting. Linux OS installation and configuration, Intermediate computer hardware knowledge.
2. **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 infiniband; Basic knowledge of MPI and GPUs;
3. **Networks:** Network devices, DNS, DHCP, VLAN. Network management and debugging using SNMP , Commandline scripting and editing: Bash 4.0 and vim, Basic network security knowledge, Linux network management tools

Exam Format

Level - I

Screening Test (MCQ type with Negative marking): Both technical questions and logical/analytical aptitude questions.

Level - II

A. **Written Test (**Descriptive type): Understanding and application of knowledge/skills.
   a. Practical usage of basic system administration utilities. Automation of different administration tasks through scripting
   b. Hardware troubleshooting of systems and networks.

B. **Practical Test:** Practical usage with more emphasis on command-line usage, as applicable.

Level - III

Trade Test (Pass/Fail nature, minimum 50% score is required to Pass): Basic working with Linux systems, Computer Hardware, and Networks

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