Syllabus for the post of Technical Superintendent (Computer Science & Engineering) (Post Code 5203)

Written Test (60 Marks) and Skill Test (40 Marks)

Server Administration
- Basic and Advanced Linux Commands - Windows Server Administration - Storage Servers and their Connectivities: NFS, SAN, NAS, PFS - Web Servers, Application Servers, Apache, Ngnix, IIS - Database Installation and Configuration, My SQL, Postgresql
Network Management
- Basics of OSI, TCP/IP Model - Basics of IPv4 and IPv6 (Internet Protocol), IPv4 Subnetting, VLAN, Network Topology, - Network Protocol, Type of Network Devices, Port Security, TCP/UDP, Basic of Routing - (static as well as dynamic), VoIP. - Wireless LANs, Wireless LAN 802.11 Service Set, Wireless Security, Wireless - Authentication Methods along with DHCP and DNS
IT Equipments and Interpreting Technical Data Sheets
- Server Configurations and Data Sheets - CPU/GPU Configurations and Data Sheets - CPU Variants such as Server Processors, Desktop Processors, Different OEM - RAM Type, Bus Speed - Router/Switch/Firewall Configurations and Data Sheets - Understanding of Data Center, Cooling, Power Requirements and their Data Sheets - UPS Configurations
Productivity Tools
- MS Office or Other Office suites - Collaborative Platforms such as Google Docs, Overleaf, etc. - Calendar Management
Technical Documentation
- LaTeX for Technical Documentations - Understanding and Creating UML/BPML Documentation - Creating Technical Diagrams: Vector Diagrams such as EPS, SVG - Creation of Technical Presentations
Technical RFP Preparation
- PHP, C#, Java, Python - Object-Oriented Design Principles
Project Management
- Agile Project management - Gantt Chart - Organizing, Assigning and Tracking Tasks - Calendar Management