Syllabus for the post of JUNIOR TECHNICAL ASSISTANT (Computer Science & Engineering)
(WRITTEN TEST & SKILL TEST)

English Language and Comprehension
- English Grammar, Sentence Correction and Completion, Paragraph Summary, Reading
Comprehension and Inference, Writing Skills
- Mathematics and Numerical Reasoning/Computation, Data Reasoning and Interpretation, Relations,Calendars, Clocks, and Directions.
Laboratory Management
- Assembling/Installation and Troubleshooting PC/Printers - Dual BIOS, and BIOS settings (MBR vs. GPT), Firmware Upgrade - OS installation and update - Basic Linux commands, Basic DOS commands, - Diagnose and resolving issues related to PCs and Laptops - Safety Measures (tools), Maintenance of licenses, Maintaining software repository (tools) - Drivers/software/packages installations in Linux/windows/MACs - Application troubleshooting, Virtual Machine (VM) - Puppet
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
Productivity Tools
- MS Office or Other Office suites - Collaborative Platforms such as Google Docs - Various browsers and settings - Calendar Management
Event Management
- Event Creation and Invitation formats, RSVP - Device drivers and Connectivities of audio, ethernet, webcam - Settings of various meeting applications PC/Tablet/Mobile
Programming or Scripting
- Basic Programming Skills with C and Python
Technical Documentation
- Docstring, UML/BPML, Flowchart
Multimedia
- Pixels, Color models, Bit depth/sampling/quantizing, Image size/resolution, Vector vs.Raster, File naming - Ethics Appreciation, Copyright and Attribution, Licensing - Various File Formats (media files) and their conversions - Basic Editing photos and videos, Concepts of layering and sequencing - Basic sound correction

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