

Name of the Post: Technical Assistant Gr.II (Console Operator)

PHASE II
SYLLABUS FOR WRITTEN TEST (Objective Type)

- **Introduction to Computer Systems:** History of computers, computer architecture, operating systems, and computer hardware,
- **Computer Components:** Motherboard, CPU, RAM, Hard Drive, Optical Drive, Power Supply Unit, and other peripheral devices.
- **Troubleshooting and Repair:** Identifying hardware and software problems, common computer errors, resolving software issues, replacing hardware components, and preventive maintenance.
- **Networking:** Network topology and architecture, IP addressing and subnetting, Network protocols (TCP/IP, DNS, HTTP.), Network hardware components (routers, switches, hubs), Wireless networking and security, Network troubleshooting and diagnostics, Network performance tuning and optimization, Network monitoring and management tools
- **Security:** Cybersecurity threats, network security, data encryption, antivirus software, Firewall Architecture and design, Firewall policies and rules.
- **Operating Systems:** Windows, Linux, and Mac operating systems, installation, configuration, updates, and maintenance, Server Operating systems (Windows, Linux), Server hardware and software Installation and Configuration, Server Maintenance, Backup and Recovery software and tools
- **Software Applications:** Common applications such as Microsoft Office Suite, Adobe Creative Suite, and other productivity and creativity software.
- **Internet and Web Technologies:** Web technologies such as HTML, CSS, JavaScript, and web development tools- Proficiency in PHP – Database connectivity with MySQL/MariaDB
- **Basic Programming Concepts:** Programming languages, algorithms, and data structures.
- **Cloud Computing:** Cloud computing basics, cloud storage, and cloud applications, cloud monitoring.

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DIRECTOR