

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
COMPUTER CENTER**

Staff Recruitment 2023: Adv No. IITT/STAFFREC/02/2023 dated 23.08.2023

Level I-B

Screening Test: Technical Multiple Choice Questions

Date: 22 November 2023	Duration: 40 Minutes	Total Marks: 30				
Post Applied For: JT (SYSTEMS)	ADMIT CARD NUMBER (LAST FOUR DIGITS ONLY)	SECTION: COMPUTER CENTER				
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Instructions

- Write and mark carefully THE LAST FOUR DIGITS OF YOUR Admit Card Number, Post Applied for and Department Codes on the OMR Answer Sheet and sign at the appropriate place. In the absence of Admit Card Number and Signature on the OMR Answer Sheet, it may not be evaluated and it may be canceled.
- Candidates are not allowed to carry any papers, notes, books, cellular phones, calculators etc. Any candidate found using or in possession of such unauthorized material or involved in copy or impersonation or adopting unfair means or behaviors will be disqualified and may be subjected to penal action.
- The examination is objective type. **Wrong answers carry negative marks. For wrong answers: -0.25 Marks.**
- The candidate must check that the Question Booklet has 30 objective questions with multiple choice answers. If any discrepancy is found, report to the Invigilator immediately, so that the Question Booklet may be replaced.
- Each objective Question is followed by four answers in which one is correct. Your task is to choose the correct answer and **mark your Answer on the OMR Answer Sheet, Not on the Question Booklet.**
- Completely darken the CIRCLE so that the alphabet inside the CIRCLE is NOT visible. Darken only one circle for each question. The CORRECT and the WRONG method of determining the CIRCLE on the OMR Answer Sheet is shown below:

<u>CORRECT METHOD</u>	<u>WRONG METHOD</u>
☐ ☒ ☐ ☐	☐ ☒ ☐ ☒
	☐ ☒ ☐ ☒
	☐ ☒ ☐ ☒
	☐ ☒ ☐ ☒
	☒ ☒ ☒ ☒
	☐ ☒ ☐ ☒

- Use blue/black ink ball point pen for darkening the circles on the OMR Answer Sheet. Do NOT use pencil.
- Folding/Wrinkling or putting any unwanted mark or damaging the OMR Answer Sheet is prohibited. The candidate will be responsible for invalidation of the OMR Answer Sheet for doing such deeds.
- Use the space provided for Rough work in the Question Booklet.
- The OMR Answer Sheet and the Question Booklet must be submitted to the Invigilator after the examination.

Questions

1. Which of the following command will delete two lines in the vim editor
(a) dd (b) 2dd (c) ddd (d) dd2
2. Which command is used to list the contents of a compressed archive without extracting it?
(a) ls -l (b) unzip -l (c) tar -tf (d) gzip -l
3. Which command is used to display the environment variables in a shell script?
(a) diplayenv (b) environment (c) env (d) showenv
4. Which command is used to remove files or directories in Linux?
(a) delete (b) remove (c) rm (d) del
5. Which command is used to display the current working directory in Linux?
(a) pwd (b) currentdir (c) dir (d) showdir
6. Which command is used to create symbolic link in Linux
(a) link (b) symlink (c) ln (d) ls
7. Identify the odd one from the following.
(a) SMTP (b) POP (c) HTTP (d) IMAP
8. Which command is used in Linux to configure printers from the terminal?
(a) lpconfig (b) cuspsconfig (c) printconfig (d) lpadmin
9. Which command displays the size of files in human-readable format?
(a) du -h (b) du -s (c) du -m (d) du -r
10. Which command helps to find the available disk space on mounted file systems?
(a) df -h (b) ds -h (c) du -h (d) ls -h
11. In binary, how many different values can be represented with 8 bits?
(a) 16 (b) 64 (c) 128 (d) 256

12. The default subnet mask for a Class C IPv4 address is?
- (a) 255.0.0.0 (b) 255.255.0.0 (c) 255.255.255.0 (d) 255.255.255.255
13. How many bits are in a MAC address?
- (a) 24 (b) 32 (c) 48 (d) 64
14. In DNS, what is the default port number for DNS queries over UDP?
- (a) 53 (b) 80 (c) 161 (d) 443
15. What device is responsible for connecting multiple computers within a local area network (LAN)?
- (a) Router (b) Switch (c) Hub (d) Modem
16. Identify the odd one from the following
- (a) 10.10.10.10 (b) 172.16.10.10 (c) 192.168.10.10 (d) 172.168.10.10
17. Which device is responsible for VLAN tagging and untagging in a network?
- (a) Hub (b) Router (c) Switch (d) Bridge
18. SNMP operates over which transport layer protocol?
- (a) UDP (b) TCP (c) IP (d) ARP
19. Your system was infected by malicious code after you downloaded a solitaire game from the internet. What type of malware did you likely encounter?
- (a) Worm (b) Virus (c) Trojan Horse (d) Logic Bomb
20. If a subnet mask is 255.255.255.128, how many host addresses are available in each subnet?
- (a) 126 (b) 128 (c) 255 (d) 192
21. Monitors, speakers, printers are called as
- (a) Input Devices
- (b) Output devices
- (c) Storage devices
- (d) All of the above

22. What is the function of a DNS server?
- (a) To host websites
 - (b) To convert domain names to IP addresses
 - (c) To manage network security
 - (d) To regulate network traffic
23. What is the DHCP Lease Time?
- (a) The time it takes for a DHCP server to respond to a request
 - (b) The duration for which an IP address is assigned to a client
 - (c) The time it takes for a DHCP client to discover available servers
 - (d) The time it takes for a DHCP client to release its IP address
24. What factor does NOT contribute to the physical size of HDD?
- (a) Spindle Speed
 - (b) Platter diameter
 - (c) Number of Platters
 - (d) Form factor
25. When you installed a dual-boot with windows and Ubuntu, what does the user typically choose during startup to select the Ubuntu or Windows OS?
- (a) Bootloader menu
 - (b) OS Selector
 - (c) Boot Configuration
 - (d) Startup Manager
26. What does the grub rescue> indicate?
- (a) GRUB installation failure
 - (b) Network failure
 - (c) Disk failure
 - (d) Device Rescued
27. What is the purpose of the MIB in SNMP?
- (a) To store network configuration files
 - (b) To manage network devices and monitor performance
 - (c) To define the structure of network packets
 - (d) To establish secure communication between devices

28. What is the purpose of printer drivers?
- (a) To connect the printer to the computer physically
 - (b) To configure print settings
 - (c) To enable communication between the computer and the printer
 - (d) To replace ink or toner cartridges
29. Which aspect does a firewall OEM typically focus on?
- (a) Network infrastructure
 - (b) User interfaces
 - (c) Application development
 - (d) Power supply technologies
30. In network cabling, what does the term "straight-through cable" refer to?
- (a) A cable used for connecting similar devices, like two computers
 - (b) A cable with connectors crimped on both ends in reverse order
 - (c) A cable with connectors crimped on both ends in the same order
 - (d) A cable used for connecting devices with different interfaces

Space for Rough Work