

Contestant Number: _____

Time: _____

Rank: _____

Device Configuration & Troubleshooting (305)

REGIONAL 2025

CONCEPT KNOWLEDGE:

Multiple Choice (50 @ 2 points each)

_____ (100 points)

Test Time: 60 minutes

Multiple Choice Questions

Directions: Identify the letter of the choice that best completes the statement or answers the question.

1. You are tasked with upgrading a computer's graphics card. Which component would you need to remove first?
 - A. CPU
 - B. RAM
 - C. Power Supply
 - D. Current Graphics Card
2. When connecting a new external hard drive to a computer, which type of port would you typically use?
 - A. VGA
 - B. HDMI
 - C. USB
 - D. Ethernet
3. A client is having trouble booting up their computer. What aspect of booting procedures should you check first to diagnose the issue?
 - A. Hard Drive health
 - B. Monitor resolution
 - C. BIOS settings
 - D. RAM capacity
4. A user is experiencing issues with their mouse cursor freezing intermittently. What would be the first step to troubleshoot this problem?
 - A. Update printer drivers
 - B. Check mouse connection
 - C. Configure firewall settings
 - D. Install additional RAM
5. A user reports that their computer is running slow and freezing frequently. Which system component would you consider replacing to potentially improve performance?
 - A. Keyboard
 - B. Monitor
 - C. Hard Drive
 - D. Mouse
6. A user reports their mouse is not working. Which peripheral port should you check for connectivity?
 - A. USB
 - B. HDMI
 - C. VGA
 - D. Ethernet

7. A user wishes to burn a CD with data. What type of peripheral device would they need?
 - A. Monitor
 - B. Printer
 - C. Optical Drive
 - D. Keyboard
8. A user's computer is experiencing overheating issues. Which system component should you consider replacing to address this problem?
 - A. Keyboard
 - B. CPU Fan
 - C. Monitor
 - D. Speakers
9. A user's computer is not booting up properly. What should be the initial step in troubleshooting this issue?
 - A. Check monitor connection
 - B. Update software
 - C. Check power supply
 - D. Reset BIOS settings
10. How can a user troubleshoot a slow computer performance issue?
 - A. Adding more RAM
 - B. Reinstalling the operating system
 - C. Cleaning up temporary files
 - D. Upgrading the CPU
11. If a computer system emits loud noises from the fan, what maintenance task can resolve this issue?
 - A. Replace the hard drive
 - B. Install more RAM
 - C. Clean the fan and vents
 - D. Update the operating system
12. If a computer system frequently freezes during use, what troubleshooting step can help identify the cause?
 - A. Install more RAM
 - B. Update the graphics card driver
 - C. Check for malware
 - D. Adjust display settings

13. If a computer system is producing no display output, which system component should be checked first for potential issues?
- A. Monitor
 - B. Keyboard
 - C. Hard Drive
 - D. Mouse
14. If a smartphone battery drains quickly, what preventative maintenance step can help optimize battery life?
- A. Use the phone while charging
 - B. Keep the phone at maximum brightness
 - C. Enable power-saving mode
 - D. Constantly close and reopen apps
15. In Windows, what utility tool is used to manage system settings, configure hardware, and view system information?
- A. Control Panel
 - B. Task Manager
 - C. Registry Editor
 - D. Command Prompt
16. What component is essential for supplying power to all the internal components of a computer system?
- A. CPU
 - B. PSU
 - C. SSD
 - D. RAM
17. What does a firewall do when it detects unauthorized network traffic trying to enter a system?
- A. Allow the traffic
 - B. Block the traffic
 - C. Slow down the traffic
 - D. Redirect the traffic
18. What does RAM stand for in computer terms?
- A. Read-And-Modify
 - B. Random Access Memory
 - C. Rapid Application Management
 - D. Real-time Audio Module

19. What does USB stand for in the context of computer ports?
- A. Universal Serial Bus
 - B. Unrestricted Storage Backup
 - C. User System Backup
 - D. Ultra Speed Bandwidth
20. What feature in Windows allows users to run programs as if they were using a different version of Windows?
- A. Compatibility Mode
 - B. Safe Mode
 - C. Recovery Console
 - D. Disk Cleanup
21. What is the first step in the booting procedure of a computer system?
- A. Loading operating system
 - B. Running BIOS checks
 - C. Powering on the system
 - D. Initializing device drivers
22. What is the primary advantage of using RAID configurations in a storage system?
- A. Decreased data security
 - B. Increased data loss risk
 - C. Improved data redundancy
 - D. Slower data access
23. What is the primary function of an Ethernet port on a computer system?
- A. Connect to a wireless network
 - B. Transfer data via cables
 - C. Charge external devices
 - D. Transmit audio and video signals
24. What is the primary function of an HDMI port on a computer or display device?
- A. Connect to the internet
 - B. Transfer data wirelessly
 - C. Transmit high-definition audio and video
 - D. Provide power to external devices
25. What is the purpose of the BIOS in the booting process of a computer system?
- A. Loads the operating system
 - B. Initializes hardware components
 - C. Authenticates user login
 - D. Manages network connections

26. What is the role of the MBR (Master Boot Record) in the booting process of a computer system?
- A. Loads the operating system
 - B. Authenticates user login
 - C. Manages network connections
 - D. Initializes boot loader
27. What part of the computer connects all the internal components and allows communication between them?
- A. CPU
 - B. RAM
 - C. Motherboard
 - D. Graphics Card
28. What precaution should be taken before replacing a system component to avoid static electricity damage?
- A. Create a backup of important data
 - B. Ground yourself
 - C. Install additional RAM
 - D. Update operating system
29. What precaution should be taken before replacing a system component to prevent damage to the hardware?
- A. Create a backup of important data
 - B. Disconnect power supply
 - C. Install additional RAM
 - D. Update operating system
30. What term is used to describe the practice of using remote servers hosted on the internet to store, manage, and process data?
- A. Virtualization
 - B. Cloud Computing
 - C. Encryption
 - D. Firewall

31. When a laptop overheats frequently, what preventative maintenance step can help improve cooling?
- A. Install more RAM
 - B. Clean the cooling fan and vents
 - C. Update the operating system
 - D. Replace the battery
32. When configuring device drivers for a new printer, what is the primary purpose of installing the correct driver?
- A. Enhance audio performance
 - B. Improve network speed
 - C. Ensure proper printer functionality
 - D. Increase storage capacity
33. When configuring device drivers for a printer, which step is essential to ensure proper functionality?
- A. Installing audio drivers
 - B. Updating graphics drivers
 - C. Connecting to a VPN
 - D. Installing the correct printer driver
34. When describing firewall settings to a user, what is the main purpose of a firewall in a network environment?
- A. Enhancing sound quality
 - B. Monitoring network traffic
 - C. Increasing screen brightness
 - D. Improving graphics performance
35. A user needs to connect additional peripherals to their computer. Which component should you focus on adding?
- A. PSU
 - B. Motherboard
 - C. Sound Card
 - D. USB Hub
36. A user needs to back up important files. What peripheral device would be most suitable for this task?
- A. Flash Drive
 - B. Monitor
 - C. Printer
 - D. Keyboard

37. Which component is responsible for converting electrical signals into visual output on the computer screen?
- A. CPU
 - B. GPU
 - C. Hard Drive
 - D. PSU
38. Which component is used to connect the computer to a network for internet access?
- A. Sound Card
 - B. Graphics Card
 - C. Network Card
 - D. Modem
39. Which component provides temporary storage for data and is faster to access than a hard drive?
- A. CPU
 - B. RAM
 - C. SSD
 - D. Optical Drive
40. Which component stores data permanently and retains information even when the computer is turned off?
- A. CPU
 - B. RAM
 - C. Hard Drive
 - D. Power Supply
41. Which operating system is commonly associated with the "Blue Screen of Death" error message?
- A. Windows 10
 - B. Linux
 - C. Windows 7
 - D. Ubuntu
42. Which operating system is known for its graphical user interface developed by Microsoft?
- A. Windows
 - B. Linux
 - C. macOS
 - D. Android

43. Which port type is commonly used for connecting a keyboard and mouse to a computer system?
- A. HDMI
 - B. USB
 - C. VGA
 - D. Ethernet
44. Which resource is used by the operating system to temporarily store data that cannot fit in RAM?
- A. Virtual Memory
 - B. Cache Memory
 - C. ROM
 - D. BIOS
45. Which system component is responsible for processing data and performing calculations in a computer?
- A. Hard Drive
 - B. CPU
 - C. RAM
 - D. Graphics Card
46. Which system resource is responsible for storing data long-term on a computer?
- A. CPU
 - B. RAM
 - C. Hard Drive
 - D. Graphics Card
47. You are assisting a user with a system upgrade. Which component should you consider replacing to enhance system performance when working with multimedia applications?
- A. Mouse
 - B. Hard Drive
 - C. Graphics Card
 - D. Monitor
48. You are configuring device drivers for a new network adapter. What is the purpose of device drivers in this context?
- A. Enhance internet speed
 - B. Improve system security
 - C. Ensure proper hardware functionality
 - D. Increase storage capacity

49. You are replacing a faulty power supply unit in a user's computer. What precaution should be taken before replacing the power supply unit to avoid electrical hazards?
- A. Disconnect all peripherals
 - B. Create a backup of important data
 - C. Uninstall device drivers
 - D. Install additional RAM
50. You are setting up a new computer system for a user. Which operating system would you choose to install for a user who prefers a more user-friendly interface?
- A. Windows 10
 - B. Linux Ubuntu
 - C. Windows 7
 - D. Linux CentOS