

Contestant ID: \_\_\_\_\_

Time: \_\_\_\_\_

Rank: \_\_\_\_\_



# **DEVICE CONFIGURATION AND TROUBLESHOOTING (305)**

## **REGIONAL 2026**

**CONCEPT KNOWLEDGE:**

Multiple Choice (50 @ 2 points each)

\_\_\_\_\_ (100 points)

**Test Time: 60 minutes**

**GENERAL GUIDELINES.**

Failure to follow any of these rules may result in disqualification:

1. **Submission Requirements:** Contestants must submit this test booklet along with any printouts.
2. **Permitted Items:** Only the equipment, supplies, and materials specified for this event are allowed in the testing area. Previous BPA tests and sample tests (whether handwritten, photocopied, or typed) are not permitted.
3. **Electronic Devices:** Electronic devices will be monitored according to ACT standards.

**Multiple Choice Questions**

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

1. When installing a PCIe graphics card, what BIOS setting might need to be changed on systems with integrated graphics?
  - A. Enable DMA
  - B. Set primary display to PCIe
  - C. Enable PATA controller
  - D. Change SATA mode
2. You need to add more memory to a computer. Which component are you working with?
  - A. Sound Card
  - B. Hard Drive
  - C. RAM
  - D. CPU
3. Which system resource is responsible for storing data long-term on a computer?
  - A. CPU
  - B. RAM
  - C. Hard Drive
  - D. Graphics Card
4. Which step is required before using a brand-new SATA SSD in Windows?
  - A. SSD
  - B. Flash Drive
  - C. HDD
  - D. Tape Drive
5. A user is experiencing no sound from their computer. What peripheral device should you troubleshoot?
  - A. Monitor
  - B. Keyboard
  - C. Mouse
  - D. Speaker
6. When adding a new hard drive to a computer, which type of device should you be familiar with?
  - A. HDMI
  - B. SSD
  - C. Flash Drive
  - D. Optical Drive

7. On a managed switch, what configuration is required before applying VLAN settings?
  - A. Assign an IP address for management
  - B. Install firmware
  - C. Change BIOS boot order
  - D. Reset to factory defaults
8. A user needs to print a document. What type of peripheral device should they use?
  - A. Monitor
  - B. Keyboard
  - C. Printer
  - D. Mouse
9. Which of the following is an example of a peripheral device?
  - A. CPU
  - B. Monitor
  - C. Motherboard
  - D. Hard Drive
10. You are troubleshooting a computer with no display on the monitor. What component should you check first?
  - A. RAM
  - B. Graphics Card
  - C. Hard Drive
  - D. CPU
11. You are attempting to troubleshoot a computer that keeps freezing during use. What type of maintenance should you perform?
  - A. Preventative Maintenance
  - B. Reactive Maintenance
  - C. Predictive Maintenance
  - D. Corrective Maintenance
12. Which system resource is responsible for rendering images and videos on a computer?
  - A. Hard Drive
  - B. RAM
  - C. CPU
  - D. Graphics Card
13. When connecting a legacy keyboard to a legacy computer, which type of port would you typically use?
  - A. VGA
  - B. HDMI
  - C. USB
  - D. PS/2

14. You are installing a new webcam on a computer. What type of component are you adding to the system?
- A. Input Device
  - B. Output Device
  - C. Storage Device
  - D. Network Device
15. A user wants to connect their printer to a computer. Which peripheral port should they use?
- A. USB
  - B. HDMI
  - C. Ethernet
  - D. VGA
16. After replacing a motherboard, what must you often do to Windows licensing?
- A. Install new RAM
  - B. Reactivate Windows with a valid license key
  - C. Clear CMOS
  - D. Run chkdsk
17. 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
18. Which system resource is crucial for multitasking and running multiple applications simultaneously?
- A. CPU
  - B. RAM
  - C. Hard Drive
  - D. Graphics Card
19. A user wants to upgrade their storage capacity. Which component would you recommend they change?
- A. PSU
  - B. Hard Drive
  - C. CPU
  - D. Sound Card
20. When looking to improve a computer's display capabilities, which component should you focus on upgrading?
- A. CPU
  - B. Hard Drive
  - C. Monitor
  - D. Keyboard

21. A user complains of slow performance on their computer. Which component should you check first?
- A. Hard Drive
  - B. RAM
  - C. CPU
  - D. Graphics Card
22. You are upgrading a computer's graphics card. What should you do first before installing the new card?
- A. Update drivers
  - B. Remove the old card
  - C. Install more RAM
  - D. Clean the CPU
23. A user needs to replace a malfunctioning keyboard on a laptop. What tool would you use to remove the old keyboard?
- A. Screwdriver
  - B. Pliers
  - C. Hammer
  - D. Power Saw
24. You are installing a new sound card on a computer. What is the first step you should take before adding the new card?
- A. Update the BIOS
  - B. Remove the old card
  - C. Unplug the computer
  - D. Install new drivers
25. A user wants to upgrade their optical drive. What component would they need to remove first?
- A. Hard Drive
  - B. PSU
  - C. CD/DVD/Blu-ray Drive
  - D. Graphics Card
26. When adding a new hard drive to a computer, what should you do before connecting the drive internally?
- A. Format the drive
  - B. Partition the drive
  - C. Update the BIOS
  - D. Power down the PC and unplug it from the power source.

27. A user wants to add a new graphics card to their computer. What should you check before installing the card?
- A. CPU temperature
  - B. Internet connection
  - C. RAM speed
  - D. Power supply wattage
28. To configure boot from a USB device, which setting in UEFI must sometimes be disabled?
- A. Hyper-Threading
  - B. Secure Boot
  - E. Virtualization
  - F. C-States
29. Which command can be used in Windows to list all installed drivers and their statuses?
- A. driverquery
  - B. netstat
  - C. ipconfig
  - D. chkdriver
30. You are connecting a webcam to a computer for video calls. Which peripheral port would you typically use?
- A. USB
  - B. HDMI
  - C. Audio Jack
  - D. Ethernet
31. A user needs to connect their headphones to a computer. Which peripheral port should they use?
- A. USB
  - B. HDMI
  - C. Audio Jack
  - D. Ethernet
32. A user wants to connect an external display to their laptop. Which peripheral port would be suitable for this task?
- A. USB
  - B. HDMI
  - C. Ethernet
  - D. VGA
33. You are connecting a microphone to a computer for voice recording. Which peripheral port would you typically use?
- A. USB
  - B. HDMI
  - C. Audio Jack
  - D. Ethernet

34. A user needs to import a document into the PC. What type of peripheral device should they use?
- A. Printer
  - B. Scanner
  - C. Webcam
  - D. Keyboard
35. You are installing a new hard drive in a computer. What type of device should you be familiar with?
- A. IDE
  - B. SSD
  - C. Flash Drive
  - D. Optical Drive
36. You are setting up a presentation and need to display visuals. What type of peripheral device should you use?
- A. Projector
  - B. Printer
  - C. Scanner
  - D. Webcam
37. A user needs to make copies of documents. What type of peripheral device should they use?
- A. All-in-One printer
  - B. Scanner
  - C. Webcam
  - D. Projector
38. When a user wants to connect an external keyboard to their laptop, which of the following connection devices should they use?
- A. WiFi
  - B. Ethernet
  - C. CAT5
  - D. Bluetooth
39. A user reports their computer is running hot. What type of maintenance should you perform?
- A. Preventative maintenance
  - B. Reactive maintenance
  - C. Predictive maintenance
  - D. Corrective maintenance
40. Which of the following is NOT an example of a peripheral device?
- A. Printer
  - B. Monitor
  - C. Keyboard
  - D. CPU



41. What is the function of a CPU in a computer system?
- A. Store files
  - B. Process data
  - C. Display graphics
  - D. Connect to the internet
42. When configuring a new printer in a Windows environment, which of the following is the most important first step?
- A. Install the latest printer drivers from the manufacturer's website
  - B. Connect the printer to the network using an ethernet cable
  - C. Set the printer as the default printer in Windows settings
  - D. Configure the print spooler service
43. A laser printer is producing faded print with streaks. What is the most likely component that needs replacement?
- A. Fuser assembly
  - B. Toner cartridge
  - C. Paper tray
  - D. Power supply
44. A user is building a new computer system. Why would the user select a PCIe x 16 expansion slot?
- A. To install a video card
  - B. To attach a VR headset
  - C. To attach a laser printer
  - D. To attach a GRU
45. Where would a technician use an RG-6 cable?
- A. When attaching a PC to a LAN
  - B. When replacing cable TV cabling
  - C. When attaching an external hard drive
  - D. When connecting a display to a PC
46. Which type of storage device would connect to the PCIe bus and provide reliability?
- A. 2.5" HDD
  - B. Tape Drive
  - C. NVMe M.2
  - D. 2.5" SSD
47. Which statement describes a feature of SDRAM?
- A. It is able to support two writes and two reads per CPU clock cycle.
  - B. Its connector always has 240 pins.
  - C. It can process overlapping instructions in parallel.
  - D. It requires constant power to function.

48. A technician is researching how to troubleshoot a computer that reboots randomly. The research suggests that the technician should check the computer for distended capacitors. Where should the technician look for these?
- A. Within the power supply
  - B. On the memory module
  - C. On the motherboard
  - D. Under the CPU
49. When installing memory into a computer with two black memory slots and two memory slots, which memory technology does this mother board use?
- A. Dual Channel
  - B. DDR4
  - C. ECC
  - D. Parity
50. Working inside a computer case, components may be sensitive to electrostatic discharge (ESD). What is the most important step to take before handling internal components?
- A. Turn off the computer and unplug the power cable.
  - B. Use an anti-static wrist strap connected to a ground surface
  - C. Work only on carpet to reduce static buildup
  - D. Wear rubber gloves while handling components.