

1. How many FireWire devices can a single FireWire port support?
 - A. 12
 - B. 25
 - C. 32
 - D. 54
 - E. 63
 - F. 127
2. Which type of memory transfers data twice as fast as SDRAM and increases performance by transferring data twice per cycle?
 - A. DDR-SDRAM
 - B. DRAM2
 - C. D-SDRAM
 - D. ROM
3. Which type of video connector has a 24-pin or 29-pin female connector and provides compressed digital output to a monitor?
 - A. AAV
 - B. DVI
 - C. HDMI
 - D. RCA
 - E. VGA
4. How many universal serial bus (USB) devices can be connected to a USB port?
 - A. 256
 - B. 127
 - C. 64
 - D. 128
5. What is the maximum data speed of high-speed USB 2.0?
 - A. 1.5 Mbps
 - B. 12 Mbps
 - C. 380 Mbps
 - D. 480 Mbps
 - E. 480 Gbps
 - F. 840 Gbps
6. Which IEEE standard defines the FireWire technology?
 - A. 1284
 - B. 1394
 - C. 1451
 - D. 1539
7. What is the maximum data rate supported by the IEEE 1394a standard?
 - A. 200 Mbps
 - B. 380 Mbps
 - C. 400 Mbps
 - D. 800 Mbps
 - E. 900 Mbps
8. What is the purpose of a heat sink installed on a processor?
 - A. To set the processor voltage
 - B. To cool the processor
 - C. To set the processor speed
 - D. To ground the processor

1. What class of fire extinguisher is used to extinguish electrical equipment fires?
 - A. Class A
 - B. Class B
 - C. Class C
 - D. Class D
2. Which of the following is a fact sheet that summarizes information about material identification, including hazardous ingredients that can affect personal health, fire hazards, and first aid requirements?
 - A. ESD
 - B. MSDS
 - C. OSHA
 - D. UPS
3. Which of the following can cause permanent damage to electrical components if you do not use proper tools and safety procedures?
 - A. ESD
 - B. UPS
 - C. MSDS
 - D. OSHA
4. What is the minimum level of electrostatic discharge that a person can normally feel?
 - A. 5 volts
 - B. 1000 volts
 - C. 3000 volts
 - D. 10,000 volts
5. Which recommendation should be followed first when a fire in the workplace is out of control?
 - A. Try to use the elevators to get to the lowest floor faster.
 - B. Get out of the room or building and contact emergency services for help.
 - C. Use the company water system to stop the fire from extending to other areas.
 - D. Try to control the fire with proper extinguishers.
6. Which of the following tools are recommended for cleaning a PC? (Choose two.)
 - A. Antibacterial spray
 - B. Compressed air
 - C. Mild abrasive detergent
 - D. Nylon brush
 - E. Rubbing alcohol
 - F. Soft cloth
7. How does a technician discharge static buildup?
 - A. Touching the painted part of the computer case
 - B. Touching an unpainted part of the computer case
 - C. Touching an antistatic wrist strap before touching any computer equipment
 - D. Touching an antistatic mat before touching any computer equipment
8. Which device is designed specifically to protect computers and electrical devices from excess electrical voltage?
 - A. Power strip
 - B. Standby power supply
 - C. Surge protector
 - D. Uninterruptible power supply
9. Which of the following effects can be observed on computer components as a result of climate? (Choose three.)
 - A. Components overheat if it is too hot.
 - B. Moisture damages computer parts if it is too humid.
 - C. Components work too slowly if it is too cold.
 - D. The risk of ESD increases if the humidity is too low.
 - E. The risk of ESD increases if the temperature is too high.

F. Components overheat if the humidity is too low.

10. Which condition refers to a sudden and dramatic increase in voltage, which is usually caused by lightning?

- A. Brownout
- B. Sag
- C. Spike
- D. Surge

1. A technician is installing a new power supply in a computer. Which type of power connector should be used to connect to a CD-ROM?

- A. Berg
- B. Mini-Molex
- C. Molex
- D. 20-pin ATX connector

2. A technician is installing a new power supply in a computer. Which type of power connector should be used to connect to an ATX motherboard?

- A. Berg
- B. Mini-Molex
- C. Molex
- D. 20-pin connector

3. When a technician installs a new CPU, what will help maintain even contact and heat distribution between the CPU and heat sink?

- A. Silicon spray
- B. Graphite paste
- C. Glue
- D. Thermal compound

4. When installing a CPU in a ZIF socket, how should the technician align the pins to avoid damage?

- A. Pin 1 is always aligned with the corner opposite the base of the lever.
- B. Pin 1 on the CPU is aligned with Pin 1 on the ZIF socket.
- C. Pin 1 is aligned with the corner closest to the memory.
- D. The removed corner of the CPU is always aligned with the corner opposite Pin 1.

5. A technician is installing additional memory in a computer. How can the technician guarantee that the memory is correctly aligned?

- A. The label on the memory module should always face the CPU.
- B. A notch in the memory module should be aligned with a notch in the memory slot.
- C. The arrows on the memory module should be aligned with the arrows on the motherboard slot.
- D. All memory and motherboard slots are color-coded, with one red end and one blue end.

6. When mounting a motherboard in a computer case, what does the technician use to prevent the motherboard from touching the bottom of the case?

- A. Standoffs
- B. Ground-fault isolators
- C. Silicon spray
- D. Grounding straps

7. When installing adapter cards in a computer, how should a technician properly secure the card?

- A. Install the card, and attach it to the expansion slot using thermal paste.
- B. Install the card, and attach it to the motherboard using thermal pads.
- C. Install the card, and secure it using metal retaining clips located on the expansion slot.
- D. Install the card, and secure it to the case with a screw.

8. Which two connectors are used to connect external peripherals?

- A. EIDE
- B. Molex

- C. PATA
- D. PS/2
- E. USB

1. Which of the following common tasks are performed during preventive maintenance?

(Choose three.)

- A. Check and secure loose cables.
- B. Update the RAM.
- C. Clean the mouse and keyboard.
- D. Update drivers.
- E. Reinstall the operating system.
- F. Install additional peripherals.

2. In which of the following situations is it recommended to ask the customer to sign a liability release form before attempting any kind of repair? (Choose two.)

- A. The technician needs to share the responsibility with the customer.
- B. The information on the computer is critical.
- C. The technician is unable to back up the customer information.
- D. The information in the backup is confidential.
- E. The customer is unable to provide a backup.

3. What is the first step in the troubleshooting process?

- A. Gather data from the computer.
- B. Gather data from the customer.
- C. Verify the obvious issues.
- D. Evaluate the problem and implement the solution.
- E. Close with the customer.
- F. Try quick solutions.

4. Which type of question allows the customer to completely describe the problem?

- A. Closed-ended
- B. Open-ended
- C. Specific
- D. Technical

5. What is the last step in the troubleshooting process?

- A. Gather data from the computer.
- B. Gather data from the customer.
- C. Verify the obvious issues.
- D. Evaluate the problem and implement the solution.
- E. Close with the customer.
- F. Try quick solutions.

1. Which open-source operating system is available on multiple hardware platforms?
 - a. Linux
 - b. Mac OS X
 - c. Windows 2000
 - d. Windows XP
2. Which registry file contains information about the hardware and software in the computer system?
 - a. HKEY_CLASSES_ROOT
 - b. HKEY_CURRENT_USER
 - c. HKEY_LOCAL_MACHINE
 - d. HKEY_USERS
3. How can the command line be accessed in Windows XP?
 - a. Start > Run > Prompt
 - b. Start > Run > cmd
 - c. Start > Control Panel > Prompt
 - d. Start > All programs > Accessories > Terminal
 - e. Start > Run > Terminal
4. Which file system is recommended for Windows XP for large file support and enhanced security?
 - a. DirectX
 - b. DOS
 - c. FAT32
 - d. HPFS
 - e. NTFS
5. What is the purpose of the Microsoft Hardware Compatibility List?
 - a. It lists all the hardware that runs Microsoft Office software.
 - b. It lists the Microsoft software that runs on the listed hardware.
 - c. It lists hardware that is supported by a Microsoft operating system.
 - d. It lists hardware that works together.
6. What should be done before upgrading from Windows 2000 to Windows XP?
 - a. Back up all the data files.
 - b. Update all the device drivers.
 - c. Detach all the peripheral devices.
 - d. Download a legitimate XP authentication key.
7. Which key or key sequence will enable a user to start Windows XP in Safe Mode?
 - a. Alt+B
 - b. Alt+X
 - c. Alt+Z
 - d. F1
 - e. F8
 - f. The Windows key
8. What is a good example of an open-ended question that a technician can ask the user to learn more about conditions before the failure?
 - a. What software has been installed recently on the computer?
 - b. Does the computer boot into the operating system?
 - c. Are there any beeps when the computer boots?
 - d. Has anybody else used the computer recently?
 - e. How many users were logged on to the network when the failure occurred?
9. What is a common cause of the error message "Invalid system disk"?
 - a. The Delete key was pressed during the system boot.
 - b. There is a nonbootable floppy disk or CD in the drive.
 - c. There is no floppy disk or CD in the drive.
 - d. The BIOS has been changed to boot from the hard drive first.

Chapter 1 Introduction to personal computer

1. E
2. A
3. B
4. B
5. D
6. B
7. C
8. B

Chapter 2 safe lab procedure

1. C
2. B
3. A
4. C
5. B
6. B, F
7. B
8. C
9. A, B, D
10. C

Chapter 3 assembly

1. C
2. D
3. D
4. B
5. B
6. A
7. D
8. D, E

Chapter 4 troubleshooting

1. B, C, D
2. C, E
3. B
4. B
5. E

Chapter 5 Os

1. A
2. C
3. B
4. E
5. C
6. A
7. E
8. A
9. B