

# Test 220-1101 Question Free PDF | Valid Valid Exam 220-1101 Registration: CompTIA A+ Certification Exam: Core 1

Chapter 1

Name \_\_\_\_\_

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

- 1) Which circuit converts data from serial form to parallel form? 1) \_\_\_\_\_  
 A) Multiplexer B) Comparator C) Encoder D) Demultiplexer
- 2) Which one of the circuits listed is made up of flip-flops? 2) \_\_\_\_\_  
 A) A comparator B) A converter C) A register D) A multiplexer
- 3) The time from one leading edge on a digital waveform to the next is the waveform \_\_\_\_\_. 3) \_\_\_\_\_  
 A) rise time B) pulse width C) period D) fall time

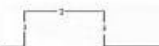


Figure 1-1

- 4) The time between transition 1 and transition 3 in Figure 1-1 is the \_\_\_\_\_. 4) \_\_\_\_\_  
 A) period B) frequency C) amplitude D) pulse width
- 5) The output from an OR gate is HIGH \_\_\_\_\_. 5) \_\_\_\_\_  
 A) when at least one input is HIGH B) only when all inputs are HIGH  
 C) only when all inputs are LOW D) none of the above

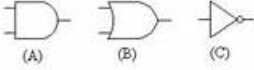


Figure 1-3

- 6) The symbol in Figure 1-3(B) represents the \_\_\_\_\_ function. 6) \_\_\_\_\_  
 A) OR B) NON C) NOR D) AND
- 7) On a positive-going pulse, the leading edge is the \_\_\_\_\_. 7) \_\_\_\_\_  
 A) HIGH-to-LOW transition B) falling edge  
 C) negative-going edge D) positive-going edge
- 8) Of the circuits listed, the one that is most likely to be found in a CD player is a(n) \_\_\_\_\_. 8) \_\_\_\_\_  
 A) programmable logic device B) digital-to-analog converter  
 C) analog-to-digital converter D) SPLD




Figure 1-1

- 9) Which edge in Figure 1-1 is the trailing edge? 9) \_\_\_\_\_  
 A) 1 B) 2 C) 3 D) Both 1 and 3

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## CompTIA A+ Certification Exam: Core 1 Sample Questions (Q239-Q244):

### NEW QUESTION # 239

A user frequently edits large files and saves them locally on a laptop. The user has recently begun experiencing performance issues and needs a cost-effective hardware upgrade. Which of the following the best way to meet the user's requirements?

- A. Upgrade the memory.
- B. Upgrade to a faster CPU.
- C. Upgrade to a larger GPU.
- **D. Upgrade to an SSD.**

**Answer: D**

Explanation:

Upgrading to an SSD (Solid State Drive) is the best way to meet the user's requirements because it will improve the performance and storage capacity of the laptop. SSDs are faster than HDDs (Hard Disk Drives) because they have no moving parts and can access data more quickly. SSDs also have lower power consumption, lower heat generation, and higher reliability than HDDs. Therefore, upgrading to an SSD will make the laptop more responsive, boot faster, and handle large files better. According to some web sources, SSDs are the best hard drives for video editing because they can streamline the workflow and store masses of footage in one easy-to-access place. SSDs are also one of the most common PC upgrades that can make a dramatic difference, especially for aging systems.

Additionally, Adobe recommends using SSDs for Premiere Pro and After Effects because they can handle large media files and cache data more efficiently.

### NEW QUESTION # 240

A user reports the following:

1. When accessing large images, PC performance is degraded.
2. When accessing small text files, PC performance is as expected.

Which of the following is the most likely cause of the performance issues?

- A. RAID array configuration errors
- B. RAID controller failure
- **C. HDD fragmentation**
- D. Insufficient power supply

**Answer: C**

Explanation:

Explanation

HDD fragmentation is a condition where the data on a hard disk drive (HDD) is not stored in contiguous clusters, but scattered across different physical locations on the disk. This happens when files are created, modified, or deleted over time, leaving gaps and fragments of data on the disk. HDD fragmentation can affect the performance of the PC, especially when accessing large files that require more disk operations to read or write<sup>12</sup>.

According to some web search results<sup>123</sup>, some signs and symptoms of a heavily fragmented HDD are:

\*Longer load times for files and programs

\*Graphics-heavy apps and games take too long to load new windows or process new environments

\*Reduced disk space and efficiency

\*Increased disk noise and temperature

\*Accelerated disk wear and failure

To fix this issue, the user can use a tool called Disk Defragmenter, which is built-in in Windows. Disk Defragmenter rearranges the fragmented data on the HDD so that it is stored in contiguous clusters, improving the disk performance and reliability<sup>1</sup>. Disk Defragmenter can run on a schedule or manually by following these steps<sup>1</sup>:

\*Open Disk Defragmenter by clicking the Start button. In the search box, type Disk Defragmenter, and then, in the list of results, click Disk Defragmenter.

\*Under Current status, select the disk you want to defragment.

\*To determine if the disk needs to be defragmented or not, click Analyze disk. If you're prompted for an administrator password or confirmation, type the password or provide confirmation.

\*Once Windows is finished analyzing the disk, you can check the percentage of fragmentation on the disk in the Last Run column. If the number is above 10%, you should defragment the disk.

\*Click Defragment disk. If you're prompted for an administrator password or confirmation, type the password or provide confirmation.

\*Disk Defragmenter might take from several minutes to a few hours to finish, depending on the size and degree of fragmentation of your hard disk. You can still use your computer during the defragmentation process.

### NEW QUESTION # 241

Which of the following cables should be used when connecting a cable modem to a SOHO router?

- A. FireWire
- B. Coaxial
- C. Ethernet
- D. Fiber

**Answer: C**

Explanation:

Explanation

The correct answer is C. Ethernet.

An Ethernet cable is a type of network cable that is used to connect devices on a local area network (LAN), such as computers, routers, switches, and modems. Ethernet cables have RJ-45 connectors at both ends, which are similar to telephone jacks but larger. Ethernet cables can carry data signals at speeds ranging from 10 Mbps to 10 Gbps, depending on the type and quality of the cable. A cable modem is a device that connects to a coaxial cable from a cable service provider and provides high-speed internet access. A SOHO router is a small office/home office router that connects to a cable modem or DSL modem and provides network and internet access to multiple devices on a LAN. A SOHO router typically has one WAN port and four LAN ports. The WAN port is used to connect to the cable modem or DSL modem, while the LAN ports are used to connect to computers or other devices on the LAN.

To connect a cable modem to a SOHO router, an Ethernet cable is needed. The Ethernet cable is plugged into the WAN port of the SOHO router and the Ethernet port of the cable modem. This allows the SOHO router to receive an IP address from the cable service provider and share it with the devices on the LAN using network address translation (NAT). The SOHO router also provides firewall and wireless features for the LAN.

The other options are incorrect because they are not suitable for connecting a cable modem to a SOHO router.

FireWire is a type of serial bus that is used to connect devices such as digital cameras, external hard drives, and audio interfaces.

FireWire cables have different connectors than Ethernet cables and cannot be used for network communication. Fiber is a type of optical cable that uses light signals to transmit data over long distances. Fiber cables have special connectors that are not compatible with Ethernet ports. Coaxial is a type of copper cable that has a central conductor surrounded by an insulating layer and a braided shield. Coaxial cables are used for cable TV and internet services, but they cannot be directly connected to Ethernet ports without an adapter.

References:

CompTIA A+ Certification Exam: Core 1 Objectives (220-1101)

Installing and Configuring a Cable Modem/DSL Router

Cisco 831 Router and SOHO 91 Router Cabling and Setup Quick Start Guide

### NEW QUESTION # 242

A user who works with sensitive data has a computer configured with hard drive encryption. The TPM is active and hosting the encrypted key. After an upgrade to the motherboard, RAM and video card the hard drive is not booting and data cannot be accessed from the hard drive. Which of the following should the technician do to enable the system to boot again and get access to the stored data?

- A. Return the replaced motherboard back to the computer
- B. Boot into the BIOS and enable the TPM on the new motherboard.
- C. Access the BIOS and select to rebuild the degraded RAID array
- D. Use data recovery software to find and recover the hard drive information

**Answer: B**

Explanation:

Explanation

The technician should boot into the BIOS and enable the TPM on the new motherboard to enable the system to boot again and get access to the stored data1.

Boot into the BIOS and enable the TPM on the new motherboard. Explanation: After upgrading the motherboard, the TPM may need to be enabled in the BIOS in order to access the encrypted key and boot the system. Enabling the TPM on the new motherboard should allow the system to boot and provide access to the encrypted data. References: CompTIA A+ Certification Exam Guide, 220-1001, Chapter 13

#### NEW QUESTION # 243

A technician is preparing a redesigned conference room for a presentation. The presenter connects a laptop to the LCD projector, but a "No input source" error message is displayed on the LCD projector's screen. However, the presentation is working on the laptop's LCD screen when in mirroring mode on the docking station. Which of the following troubleshooting steps should the technician take first?

- A. Check the physical cabling.
- B. Replace the LCD projector.
- C. Reboot the laptop.
- D. Update the display drivers.

**Answer: A**

Explanation:

One of the possible causes of the error message "No input source" is that the LCD projector is not receiving any signal from the connected device, such as a laptop. This could be due to a loose or faulty cable or connector, or an incorrect input source selected on the projector.

Therefore, the first troubleshooting step that the technician should take is to check the physical cabling and make sure it is properly connected and secured.

#### NEW QUESTION # 244

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