

TSA Foundations of Information Technology Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Questions

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- 1. What is the role of a network administrator?**
 - A. To oversee the performance of web applications**
 - B. To manage a computer network and monitor traffic**
 - C. To provide technical support to end users**
 - D. To set up security protocols for the Internet**
- 2. What often initiates the harm caused by a Trojan horse virus?**
 - A. User intervention is always required**
 - B. It waits for a computer action or specific date**
 - C. It immediately executes upon installation**
 - D. It requires a network connection to operate**
- 3. What does the CTRL+W shortcut do?**
 - A. Insert hyperlink**
 - B. Find in page**
 - C. Close/Quit the document**
 - D. Create a new document**
- 4. What action is performed when using the Delete key on a keyboard?**
 - A. Removes text from the left of the cursor**
 - B. Removes text from the right of the cursor**
 - C. Exits the current application**
 - D. Restores deleted text**
- 5. What does the Input step in a computer's function do?**
 - A. It processes data into usable information**
 - B. It receives data for processing**
 - C. It outputs information to the user**
 - D. It stores data for future access**

- 6. What is the relationship between clients and servers in a network?**
- A. Servers are users while clients serve content**
 - B. Clients request services from servers**
 - C. Servers manage data while clients create data**
 - D. Clients connect to other clients directly**
- 7. What is a key reason that default-allow firewall rules can be risky?**
- A. They require frequent updates**
 - B. They are easy to configure**
 - C. They can lead to unintended network connections**
 - D. They guarantee full network security**
- 8. What is the role of a network interface card (NIC)?**
- A. To improve graphical performance of a computer**
 - B. To enable a computer to connect to a network**
 - C. To enhance sound quality during multimedia playback**
 - D. To secure data through encryption**
- 9. What is a data center used for?**
- A. Hosting websites only**
 - B. Providing a location for data processing and storage**
 - C. Designing software applications**
 - D. Creating online advertisements**
- 10. What is meant by software in the context of computers?**
- A. A collection of physical devices**
 - B. A set of computer instructions that tell the computer how to work**
 - C. The maintenance of hardware components**
 - D. The procedures followed during computer repairs**

Answers

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- 1. B**
- 2. B**
- 3. C**
- 4. B**
- 5. B**
- 6. B**
- 7. C**
- 8. B**
- 9. B**
- 10. B**

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Explanations

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1. What is the role of a network administrator?

- A. To oversee the performance of web applications
- B. To manage a computer network and monitor traffic**
- C. To provide technical support to end users
- D. To set up security protocols for the Internet

The role of a network administrator involves managing a computer network and monitoring its traffic, which is essential for maintaining the network's efficiency and reliability. Network administrators are responsible for the configuration, maintenance, and operation of the networking infrastructure, ensuring that all systems are functioning properly and securely. They monitor traffic to identify and resolve potential issues, optimize performance, and ensure that the network is running smoothly for all users. This encompasses tasks such as setting up network hardware like routers and switches, installing and configuring network software, and troubleshooting connectivity problems. Ultimately, the role ensures that data can be transmitted seamlessly across the network, which is critical for both communication and operational tasks within an organization.

2. What often initiates the harm caused by a Trojan horse virus?

- A. User intervention is always required
- B. It waits for a computer action or specific date**
- C. It immediately executes upon installation
- D. It requires a network connection to operate

A Trojan horse virus is a type of malware that disguises itself as legitimate software to deceive users. The correct answer points out that these viruses can be designed to wait for a specific computer action or a predetermined date before executing their harmful code. This property makes them particularly insidious, as users might install what they believe is harmless software, only to have it trigger malicious activity at a later time without their awareness. This delayed execution can be based on various triggers, such as specific user actions (like opening a file or launching an application) or system conditions, which can lead to greater potential for damage as the user is often unaware of the threat present in their system until it is too late. Understanding this behavior helps users and IT professionals recognize the importance of vigilance in monitoring installed software and being cautious about downloads, even from seemingly trustworthy sources. This awareness is critical in maintaining cybersecurity and avoiding the pitfalls associated with Trojan horse viruses.

3. What does the CTRL+W shortcut do?

- A. Insert hyperlink
- B. Find in page
- C. Close/Quit the document**
- D. Create a new document

The CTRL+W shortcut is commonly used to close or quit the current document or tab in various applications, particularly in web browsers and word processors. This function helps users efficiently manage their windows and documents by enabling quick closure without having to navigate through menus or use a mouse. Understanding the broader context of keyboard shortcuts is also important. Unlike actions such as inserting hyperlinks, finding text on a page, or creating new documents, which involve additional steps or different commands, CTRL+W simplifies the workflow by providing a direct method to finish working with an item. This efficient use of keyboard shortcuts enhances productivity and helps in managing open documents with ease.

4. What action is performed when using the Delete key on a keyboard?

- A. Removes text from the left of the cursor
- B. Removes text from the right of the cursor**
- C. Exits the current application
- D. Restores deleted text

When the Delete key on a keyboard is pressed, it specifically removes text located immediately to the right of the cursor's position. This action is particularly useful for editing text documents, as it allows the user to eliminate unwanted characters or spaces without needing to move the cursor around extensively. The functionality of the Delete key is designed to offer efficiency in text manipulation, allowing for quick corrections without the need to select text prior to deletion. Knowing how the Delete key operates is an important part of utilizing keyboards effectively in various applications.

5. What does the Input step in a computer's function do?

- A. It processes data into usable information
- B. It receives data for processing**
- C. It outputs information to the user
- D. It stores data for future access

The Input step in a computer's function is crucial because it is the phase where data is gathered from various sources for further processing. This step involves receiving raw data that can come from input devices such as keyboards, mice, touchscreens, or other forms of data entry mechanisms. The collected data is then prepared to be sent to the processing unit of the computer, where it will be transformed into usable information. The significance of the input function lies in its role as the starting point of computer operations. Without the input stage, no data would be available for subsequent processes such as calculations, analysis, or output.

6. What is the relationship between clients and servers in a network?

- A. Servers are users while clients serve content**
- B. Clients request services from servers**
- C. Servers manage data while clients create data**
- D. Clients connect to other clients directly**

The relationship between clients and servers in a network is defined by the client-server model, where clients are the devices or applications that request resources or services from servers. In this context, the clients initiate communication with the servers, asking for data, processing power, or various services. Servers, on the other hand, are designed to respond to these requests, providing the necessary resources to fulfill them. In this model, clients do not deliver content or manage databases; instead, they rely on servers to do so. The interaction is typically request-and-response based, where the client sends a request to the server, and the server processes that request and sends back the appropriate response. This foundational architecture is essential to understanding how data flows across a network and is integral to many applications and services we use today. This choice encapsulates the essence of the client-server relationship, emphasizing the role of clients as consumers of services and servers as providers, making it the best answer to convey the dynamics of this relationship in a networked environment.

7. What is a key reason that default-allow firewall rules can be risky?

- A. They require frequent updates**
- B. They are easy to configure**
- C. They can lead to unintended network connections**
- D. They guarantee full network security**

Default-allow firewall rules can lead to unintended network connections because they permit all types of traffic by default, unless explicitly denied. This means that any device or application that tries to connect to the network may be allowed access, regardless of whether it's legitimate or secure. As a result, malicious traffic, unauthorized devices, or malware can exploit these open pathways, posing significant risks to the security of the network. By not restricting traffic, default-allow rules can create vulnerabilities that may go unnoticed until an incident occurs, fundamentally undermining the effectiveness of network security measures. In contrast, approaches that employ default-deny rules—where all traffic is blocked unless it is specifically permitted—are generally considered more secure because they require explicit permission for any connection to be established, reducing the risk of unauthorized access.

8. What is the role of a network interface card (NIC)?

- A. To improve graphical performance of a computer
- B. To enable a computer to connect to a network**
- C. To enhance sound quality during multimedia playback
- D. To secure data through encryption

A network interface card (NIC) plays a critical role in facilitating communication between a computer and a network. Its primary function is to connect the computer to a local area network (LAN) or the internet, enabling data transfer and network access. The NIC acts as a bridge, converting data from the computer into a format suitable for transmission over the network and vice versa. This capability is essential for various networking tasks, such as joining a network for file sharing, internet access, or connecting to other devices. NICs can be wired, utilizing Ethernet cables, or wireless, using Wi-Fi technology, but in both cases, they are integral to establishing connectivity. In contrast, options relating to improving graphical performance, enhancing sound quality, or securing data through encryption describe entirely different components and functions. These aspects do not pertain to the primary function of a NIC, which is solely focused on network connectivity.

9. What is a data center used for?

- A. Hosting websites only
- B. Providing a location for data processing and storage**
- C. Designing software applications
- D. Creating online advertisements

A data center is a facility that provides a dedicated space for data processing, storage, and management. This encompasses not only the physical servers and equipment needed to host applications but also the necessary infrastructure to support them, such as power supply, cooling systems, and security measures. Choosing the option that highlights the role of data centers in handling large volumes of data, powering cloud services, and supporting organizations in their digital operations accurately reflects their primary purpose. While web hosting is one application of a data center, it is a broader concept involving numerous other functions, including data storage, backup, and recovery. Thus, emphasizing the extensive utility of data centers in data processing and storage illustrates their critical role in modern IT environments.

10. What is meant by software in the context of computers?

- A. A collection of physical devices**
- B. A set of computer instructions that tell the computer how to work**
- C. The maintenance of hardware components**
- D. The procedures followed during computer repairs**

In the context of computers, software refers to a set of computer instructions or programs that enable a computer to perform specific tasks or functions. This includes operating systems, applications, and programming languages that dictate how the hardware components work together to perform calculations, manipulate data, and execute commands. Software can be thought of as the intangible part of a computer system, in contrast to hardware, which comprises the physical devices you can touch. The importance of software lies in its ability to translate user inputs into functions that the computer's hardware can execute, thus allowing users to interact with and utilize the machine effectively. This distinction highlights why the selection capturing the essence of software as instructions is the most accurate among the choices presented.