

TSA Cybersecurity Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Questions

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- 1. How does a bank exemplify the concept of accounting in cybersecurity?**
 - A. By providing loan guarantees**
 - B. By tracking customer account activity and transactions**
 - C. By limiting customer access to ATMs**
 - D. By offering investment advice**
- 2. Which of the following components is unnecessary for creating a network?**
 - A. Cables**
 - B. Wireless Adapters**
 - C. Router**
 - D. Switch**
- 3. Which installation method is most likely to put your computer at risk of downloading a virus?**
 - A. CD or DVD Installation**
 - B. Internet Installation**
 - C. Local Installation**
 - D. Peer-to-Peer Installation**
- 4. What three design principles help to ensure high availability?**
 - A. Eliminate single points of failure**
 - B. Provide for reliable crossover**
 - C. Detect failures as they occur**
 - D. All of the above**
- 5. How are documents in the World Wide Web connected?**
 - A. Through email links**
 - B. Via hyperlinks**
 - C. Using FTP**
 - D. By IP addresses**

- 6. What is a potential consequence of not maintaining a clean cache in a web browser?**
- A. Increased security risks**
 - B. Slower website loading times**
 - C. Improved browsing speed**
 - D. Loss of saved preferences**
- 7. Which of the following is NOT a method of data transmission?**
- A. Wired networks**
 - B. Wireless networks**
 - C. Sneakernet**
 - D. Cloud storage**
- 8. What foundational principle of cybersecurity ensures that information is protected from unauthorized access?**
- A. Integrity**
 - B. Availability**
 - C. Confidentiality**
 - D. Authentication**
- 9. What does HTML stand for?**
- A. Hypertext Markup Language**
 - B. Hyperlink Transfer Markup**
 - C. Hypertext Meta Language**
 - D. Hypertext Transfer Language**
- 10. What application ensures your computer has the most recent versions of its system software?**
- A. Windows Firewall**
 - B. Windows Update**
 - C. System Restore**
 - D. Disk Cleanup**

Answers

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

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Explanations

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1. How does a bank exemplify the concept of accounting in cybersecurity?

- A. By providing loan guarantees**
- B. By tracking customer account activity and transactions**
- C. By limiting customer access to ATMs**
- D. By offering investment advice**

A bank exemplifies the concept of accounting in cybersecurity primarily through the meticulous tracking of customer account activity and transactions. This function is essential in identifying and mitigating potential cybersecurity threats. By monitoring transactions, banks can detect unusual patterns or unauthorized access attempts in real-time, which helps in safeguarding sensitive financial information and preventing fraud. The tracking of customer account activity allows the bank to maintain accurate records, which is crucial not only for financial reporting but also for compliance with regulations aimed at protecting consumer data. This accounting aspect underpins the security measures implemented within the bank, as it relies on thorough audit trails and accurate record-keeping to reassure customers about the integrity and safety of their financial transactions. This proactive approach not only enhances security but also fosters trust between the bank and its clients. In contrast, the other options, while relevant to the overall operations of a bank, do not specifically highlight the role of accounting in the context of cybersecurity. Loan guarantees pertain to financial products, limiting access to ATMs relates to physical security measures rather than accounting, and offering investment advice does not address the tracking and monitoring of financial transactions which is central to cybersecurity practices.

2. Which of the following components is unnecessary for creating a network?

- A. Cables**
- B. Wireless Adapters**
- C. Router**
- D. Switch**

Creating a network typically requires several essential components, including cables, routers, and switches. Wireless adapters, while important for enabling wireless connectivity, are not strictly necessary for the formation of a network itself because networking can be accomplished entirely through wired connections. A network can successfully operate using only cables, a router, and a switch to facilitate communication between devices. Cables are crucial for connecting devices directly, routers manage traffic between networks, and switches facilitate communication between devices within a local area network (LAN). Even without wireless adapters, a functional network can still be established using these other components. Thus, while wireless adapters enhance connectivity options, they are not a core requirement for creating a network.

3. Which installation method is most likely to put your computer at risk of downloading a virus?

- A. CD or DVD Installation**
- B. Internet Installation**
- C. Local Installation**
- D. Peer-to-Peer Installation**

The Internet installation method is often the most likely to expose your computer to the risk of downloading a virus because it involves downloading software from the web, where the source may not always be trustworthy. When you download files from the Internet, particularly from unknown or unsecured websites, there is a heightened chance of inadvertently obtaining malware disguised as legitimate software. Cybercriminals commonly use the Internet as a vector to distribute malicious programs, making it essential to ensure that downloads come from reputable sources or official websites. In contrast, a CD or DVD installation typically involves media that is obtained physically and can be verified easier. Local installation implies that the software is already on the machine or a local network, minimizing exposure to external threats. Peer-to-Peer installation often depends on shared files from other users, which can carry some risk, but authenticity checks are generally more feasible within a controlled environment. Thus, while all methods carry some risk, Internet installations present a greater vulnerability to malware attacks.

4. What three design principles help to ensure high availability?

- A. Eliminate single points of failure**
- B. Provide for reliable crossover**
- C. Detect failures as they occur**
- D. All of the above**

High availability in systems and networks is crucial to ensure that services are consistently available and resilient to failures. The three design principles mentioned significantly contribute to achieving high availability in a robust manner. Eliminating single points of failure is fundamental because having a single point in a system that, if it fails, would cause an entire service to be unavailable means that the system lacks redundancy. By removing these points and incorporating redundancy—such as using multiple servers, failover mechanisms, or diverse network paths—systems can continue to operate even when one component fails. Providing for reliable crossover ensures that there are effective means to redirect traffic or workloads seamlessly in the event of a failure. This involves strategies like load balancing or having backup systems that can take over automatically or with minimal interruption when the primary system fails. This approach maintains service continuity and enhances overall system reliability. Detecting failures as they occur is also essential as timely detection allows for rapid response to issues. Monitoring systems that provide alerts when failures begin to unfold enable administrators to act quickly—either by initiating failover processes or resolving issues before they escalate into outages. Prompt detection limits downtime, thus contributing to higher availability. By combining these three principles—removing single points of failure, ensuring reliable failover mechanisms, and implementing systems

5. How are documents in the World Wide Web connected?

A. Through email links

B. Via hyperlinks

C. Using FTP

D. By IP addresses

Documents on the World Wide Web are primarily connected through hyperlinks. These hyperlinks serve as references or navigational elements that link users from one document to another, allowing for an interconnected web of information. When a user clicks on a hyperlink, it directs the browser to the linked document, which can be located on the same website or a different one entirely. This hyperlinked structure is foundational to the functioning of the web, enabling easy navigation between a vast array of resources and content, thus creating a seamless user experience. While options like email links, FTP, and IP addresses have their roles in the broader context of internet communication and data transfer, they do not facilitate direct document connectivity in the way hyperlinks do. Email links are used to create interactions via email rather than linking documents, FTP refers to transferring files between systems rather than connecting web documents, and IP addresses identify devices on the network but do not inherently link documents together. Hyperlinks specifically enable the web's structure, making them the crucial tool for connection.

6. What is a potential consequence of not maintaining a clean cache in a web browser?

A. Increased security risks

B. Slower website loading times

C. Improved browsing speed

D. Loss of saved preferences

Not maintaining a clean cache in a web browser can indeed lead to slower website loading times. When a web browser's cache is not cleared regularly, it can accumulate a large number of outdated or unnecessary files. These files can consume memory and processing resources, making it harder for the browser to retrieve the most current versions of web pages. As a result, users may experience longer loading times as the browser sifts through the cluttered cache to find the necessary files to display a webpage effectively. Maintaining a clean cache helps ensure that the browser operates efficiently by reducing the clutter of old data, allowing it to access and load the necessary elements of websites more quickly. Thus, routinely clearing the cache can lead to a smoother and faster browsing experience.

7. Which of the following is NOT a method of data transmission?

- A. Wired networks**
- B. Wireless networks**
- C. Sneakernet**
- D. Cloud storage**

Data transmission refers to the process of sending and receiving data between devices and systems. The term encompasses various methods used to transfer data, either through physical connections or through wireless means. Wired networks and wireless networks are two primary methods of data transmission. Wired networks utilize physical cables (such as Ethernet cables) for data transfer, while wireless networks use radio waves to transmit data over the air. Sneakernet is a less common method where data is physically transported from one device to another using portable storage media, such as USB drives or external hard drives. Although unconventional, it is still considered a means of data transmission. Cloud storage, on the other hand, refers to a service that allows users to store and access data over the internet through a third-party provider's servers. While cloud storage may facilitate data access and sharing, it does not directly constitute a method of transmitting data itself. Instead, it is a form of data storage and management, where the transmission occurs through the internet, but the primary purpose is to store rather than transmit data.

8. What foundational principle of cybersecurity ensures that information is protected from unauthorized access?

- A. Integrity**
- B. Availability**
- C. Confidentiality**
- D. Authentication**

The foundational principle of cybersecurity that ensures information is protected from unauthorized access is confidentiality. This principle focuses on preventing unauthorized individuals from gaining access to sensitive data. It emphasizes the importance of keeping information secret from those who do not have permission to view or use it. This may involve implementing various security measures, such as encryption, access controls, and authentication processes, to ensure that only authorized personnel can access specific information. While integrity refers to the protection of data from being altered or tampered with, and availability ensures that information and resources are accessible to authorized users when needed, these concepts do not directly address the protection against unauthorized access. Authentication, on the other hand, is the process used to verify the identity of a user or system trying to access information, but it is a mechanism that supports confidentiality rather than being a principle itself. Thus, confidentiality is the principle specifically aimed at safeguarding against unauthorized access to information.

9. What does HTML stand for?

- A. Hypertext Markup Language**
- B. Hyperlink Transfer Markup**
- C. Hypertext Meta Language**
- D. Hypertext Transfer Language**

HTML stands for Hypertext Markup Language. This is the standard markup language used to create and design documents on the World Wide Web. It provides the structure for web pages and web applications by using various elements and tags that define parts of the content such as headings, paragraphs, links, images, and other multimedia. The term "hypertext" refers to the way that web pages link to each other, allowing users to navigate dynamically through interconnected information. The "markup" aspect signifies that the language uses tags to annotate text, embedding instructions for browsers on how to display the content. Understanding HTML is fundamental for anyone involved in web development as it serves as the backbone for building websites and is essential for ensuring proper content presentation and interactivity on the internet.

10. What application ensures your computer has the most recent versions of its system software?

- A. Windows Firewall**
- B. Windows Update**
- C. System Restore**
- D. Disk Cleanup**

The application that ensures your computer has the most recent versions of its system software is Windows Update. This tool is specifically designed to download and install updates released by Microsoft for the Windows operating system and its components. These updates can include important security patches, feature enhancements, driver updates, and other improvements that help to maintain the performance and security of the system. Windows Update operates in the background, automatically checking for updates at scheduled intervals or on-demand when initiated by the user. Keeping the operating system up to date is crucial for protecting against vulnerabilities and ensuring compatibility with other software and hardware. In contrast, the other options serve different purposes: Windows Firewall is a security feature that helps to protect the computer from unauthorized access, System Restore allows users to revert their system settings to a previous state in case of problems, and Disk Cleanup is a utility that frees up disk space by removing unnecessary files but does not manage software updates. Thus, the role of ensuring current system software is specifically assigned to Windows Update.