

Information Systems and Controls (ISC) CPA Practice Exam (Sample)

Study Guide



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Questions

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- 1. What is the first step in a walkthrough process?**
 - A. Plan and prepare**
 - B. Obtain an understanding**
 - C. Perform the walk-through**
 - D. Create documentation**
- 2. Which backup method typically requires the most time to perform?**
 - A. Incremental Backup**
 - B. Differential Backup**
 - C. Full Backup**
 - D. Mirroring Backup**
- 3. Which component is considered the brain of the internal computer hardware?**
 - A. Hard drive**
 - B. Microprocessor**
 - C. Power supply**
 - D. Graphics card**
- 4. What type of network architecture connects multiple offices over a large geographical area?**
 - A. Local Area Network (LAN)**
 - B. Software-Defined WAN**
 - C. Virtual Private Network (VPN)**
 - D. Wide-Area Network (WAN)**
- 5. What is a responsibility of management regarding CUECs?**
 - A. They must disclose CUECs in the organization's annual budget**
 - B. They must ensure that the system description discloses CUECs**
 - C. They can outsource the assessment of CUECs without oversight**
 - D. They only need to consider CUECs if issues arise**

- 6. During the implementation of a CSP, what is a crucial step regarding governance?**
- A. Developing marketing strategies**
 - B. Integrating CSP governance with existing policies**
 - C. Creating new risk management frameworks**
 - D. Focusing solely on technological needs**
- 7. What must auditors agree on when planning SOC engagements?**
- A. Engagement terms**
 - B. Materiality thresholds**
 - C. Risk assessment procedures**
 - D. Independence standards**
- 8. Which characteristic defines a Data Lake?**
- A. Contains only structured data**
 - B. Stores data in its raw format, both structured and unstructured**
 - C. Exclusively used for historical data**
 - D. Requires strict schema enforcement for data**
- 9. What type of flow in BPMN connects objects within the same pool?**
- A. Dotted lines**
 - B. Smooth-lined arrows**
 - C. Dashed lines**
 - D. Solid lines**
- 10. What element is NOT typically a part of the risk profile in COBIT?**
- A. Risk exposure for the organization**
 - B. Potential business growth**
 - C. Risk appetite**
 - D. Current vulnerabilities**

Answers

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

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Explanations

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1. What is the first step in a walkthrough process?

- A. Plan and prepare**
- B. Obtain an understanding**
- C. Perform the walk-through**
- D. Create documentation**

The first step in a walkthrough process is to plan and prepare. This stage is crucial as it involves setting objectives, identifying the processes and controls to be reviewed, and determining the scope of the walkthrough. Proper planning ensures that the walkthrough is effective and efficient, allowing the team to collect relevant data and understand the specific areas that require focus. Preparation also often includes gathering necessary documentation, such as process maps or control descriptions, which can guide the review and facilitate robust understanding during subsequent steps in the walkthrough. This foundational step establishes the framework for conducting the walkthrough, ultimately leading to a more organized and successful evaluation of the system or processes in question. Once this is completed, the team can move on to obtaining an understanding of the processes, performing the actual walkthrough, and creating documentation about the findings.

2. Which backup method typically requires the most time to perform?

- A. Incremental Backup**
- B. Differential Backup**
- C. Full Backup**
- D. Mirroring Backup**

A full backup is the process of creating a copy of all data in a system or specified data set at a particular point in time. This method typically requires the most time to perform because it involves backing up every file and piece of information, regardless of whether it has changed since the last backup. In contrast, incremental backups only capture data that has changed since the last backup, which significantly reduces the time needed for the backup process. Differential backups capture all changes made since the last full backup, but still require less time than a full backup since they do not need to repeatedly process data that hasn't changed since the last full backup. Mirroring creates an exact copy of the data in real-time or near real-time, effectively keeping the backup up to date but not requiring a full backup process during scheduled intervals. Therefore, the full backup stands out as the most time-consuming method due to its comprehensive nature of including all data, making it essential for ensuring complete restoration but requiring significant time and resources to execute.

3. Which component is considered the brain of the internal computer hardware?

- A. Hard drive
- B. Microprocessor**
- C. Power supply
- D. Graphics card

The microprocessor is often referred to as the "brain" of the internal computer hardware because it is responsible for executing instructions and processing data. It performs the fundamental operations necessary for computing tasks, such as arithmetic calculations, logical operations, and controlling the flow of data within the system. The microprocessor interprets and executes program instructions, making it essential for the overall functionality of the computer. In contrast, other components like the hard drive serve primarily as storage, where data is saved and retrieved but not processed. The power supply provides the necessary electrical power to the system but does not perform any data processing functions. Meanwhile, the graphics card is responsible for rendering images and video, handling visual output but not the general processing of tasks. Therefore, the microprocessor plays a vital role that distinguishes it as the focal point of processing activity within the computer.

4. What type of network architecture connects multiple offices over a large geographical area?

- A. Local Area Network (LAN)
- B. Software-Defined WAN
- C. Virtual Private Network (VPN)
- D. Wide-Area Network (WAN)**

The correct answer is Wide-Area Network (WAN). WANs are specifically designed to connect multiple locations that are geographically dispersed, often covering large distances such as different cities or countries. This architecture facilitates communication and data transfer between various offices and sites, enabling organizations to operate seamlessly across different regions. A WAN typically utilizes leased telecommunication lines, satellite links, or other long-distance communication facilities to provide connectivity. This characteristic distinguishes it from Local Area Networks (LANs), which are used for smaller areas, such as a single building or campus, and therefore do not support widespread connections across expansive distances. While Software-Defined WAN and Virtual Private Network (VPN) are also related to networking, they serve different purposes. A Software-Defined WAN enhances the management and control of WANs and improves the efficiency of data transmission, but it is not a network type itself. A VPN provides secure access over the internet by encrypting data, primarily allowing remote users to access a private network securely; however, it does not inherently signify the geographical connection capability characteristic of a WAN. Thus, WAN encompasses the necessary architecture to connect multiple offices over large geographical areas effectively.

5. What is a responsibility of management regarding CUECs?

- A. They must disclose CUECs in the organization's annual budget**
- B. They must ensure that the system description discloses CUECs**
- C. They can outsource the assessment of CUECs without oversight**
- D. They only need to consider CUECs if issues arise**

Management has a critical role in ensuring the integrity and effectiveness of an organization's internal controls, which includes Continuous Update and Execution Controls (CUECs). One of their specific responsibilities is to ensure that the system description of the internal control framework accurately discloses these CUECs. This disclosure is essential as it provides transparency regarding the controls in place, the processes being followed, and the risks associated with those processes. By ensuring that CUECs are properly disclosed in the system description, management demonstrates accountability and facilitates a clearer understanding for stakeholders, auditors, and regulatory bodies about how the organization manages its operational risks. Accurate and comprehensive documentation of controls helps in auditing and evaluating the effectiveness of the internal control system, thereby safeguarding the organization's assets and ensuring compliance with applicable laws and regulations. This focus on disclosure aligns with best practices in governance and risk management, reinforcing the organization's commitment to overseeing its operations efficiently and effectively. Other choices do not reflect the primary responsibility of management regarding CUECs, as they either suggest inadequate oversight, a reactive approach, or misplace the emphasis on disclosure within the context of budgeting.

6. During the implementation of a CSP, what is a crucial step regarding governance?

- A. Developing marketing strategies**
- B. Integrating CSP governance with existing policies**
- C. Creating new risk management frameworks**
- D. Focusing solely on technological needs**

During the implementation of a Cloud Service Provider (CSP), a crucial step regarding governance is integrating CSP governance with existing policies. This is essential because it ensures that the cloud services align with the organization's overarching governance framework, regulatory requirements, and internal controls. By harmonizing CSP governance with current policies, organizations can maintain consistency in risk management, compliance, and decision-making processes. This integration helps address concerns such as data privacy, security protocols, and regulatory adherence. It also promotes a cohesive strategy for managing cloud resources, fostering accountability, and ensuring that the cloud services do not create silos that could lead to governance gaps. This consolidation is vital to maintain organizational integrity and to leverage the benefits of the cloud while still adhering to established practices and standards. In contrast to this crucial step, developing marketing strategies would focus more on promoting the CSP rather than managing it effectively, while creating new risk management frameworks might lead to unnecessary duplication or complication of existing structures. Focusing solely on technological needs risks ignoring the important policy considerations that govern how technology is used within the organization.

7. What must auditors agree on when planning SOC engagements?

- A. Engagement terms**
- B. Materiality thresholds**
- C. Risk assessment procedures**
- D. Independence standards**

In planning System and Organization Controls (SOC) engagements, auditors must agree on the engagement terms. This includes defining the scope, objectives, responsibilities, and deliverables of the audit, ensuring that both the auditor and the client have a mutual understanding of what will be assessed and reported on. Clear engagement terms help to outline how the audit will be conducted, what standards will be applied, the timelines involved, and the expectations from both parties. Establishing these terms from the outset is crucial for the effectiveness of the audit process and helps in managing the relationship throughout the engagement. Other aspects such as materiality thresholds, risk assessment procedures, and independence standards are also important in the context of audits but do not serve as the initial agreements necessary to start the planning phase. These elements can be determined as part of the audit execution process once the engagement terms are established.

8. Which characteristic defines a Data Lake?

- A. Contains only structured data**
- B. Stores data in its raw format, both structured and unstructured**
- C. Exclusively used for historical data**
- D. Requires strict schema enforcement for data**

A Data Lake is defined by its ability to store data in its raw format, accommodating both structured and unstructured data types. This characteristic allows organizations to collect and retain large volumes of data without the need to predefine the structure, providing flexibility and scalability for future data analysis and processing. In contrast to more traditional data storage solutions, such as databases or data warehouses, which often require data to be transformed and organized according to a specific schema before being stored, a Data Lake allows for a more agile approach. This means that data can be ingested quickly and retained without immediate processing, making it ideal for scenarios where data may be required for different analytical purposes over time. The ability to handle unstructured data, such as images, videos, and social media content, as well as structured data from databases, distinguishes Data Lakes from other data storage solutions, making option B the correct answer.

9. What type of flow in BPMN connects objects within the same pool?

- A. Dotted lines**
- B. Smooth-lined arrows**
- C. Dashed lines**
- D. Solid lines**

In Business Process Model and Notation (BPMN), the flow that connects objects within the same pool is represented by smooth-lined arrows. These arrows depict the sequence flow, which indicates the order of activities or events that occur within a specific process. This type of flow is crucial for understanding how tasks and events relate to one another within the context of a single organizational entity or a particular business process. Smooth-lined arrows provide clarity and direction, making it easy for stakeholders to follow the flow of tasks and decision points. Other line types, such as dotted or dashed lines, serve different purposes in BPMN; for instance, dashed lines are often used for message flows between different pools, while dotted lines can represent associations. Therefore, the use of smooth-lined arrows is essential for effectively modeling and interpreting the internal workflows of a process within a single pool.

10. What element is NOT typically a part of the risk profile in COBIT?

- A. Risk exposure for the organization**
- B. Potential business growth**
- C. Risk appetite**
- D. Current vulnerabilities**

The element that is not typically a part of the risk profile in COBIT is potential business growth. COBIT, or Control Objectives for Information and Related Technologies, is a framework for developing, implementing, monitoring, and improving IT governance and management practices. The risk profile in COBIT focuses on understanding the organization's risk exposure, risk appetite, and current vulnerabilities to effectively manage information systems and controls. The risk profile integrates various components that explicitly deal with the risk environment of an organization, such as potential losses, threats, and current vulnerabilities - all critical for establishing a well-informed context for decision-making regarding IT governance. However, potential business growth relates more to strategic planning and future opportunities rather than the assessment of risks currently faced. Hence, it does not fit within the scope of a risk profile, which is centered around risks and vulnerabilities rather than growth prospects.