

Certified Information Systems Auditor (CISA) QAE Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Questions

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- 1. Which type of test is primarily aimed at getting real-world exposure to a product?**
 - A. Unit testing**
 - B. Acceptance testing**
 - C. Beta testing**
 - D. Regression testing**
- 2. What controls space utilization in a database environment?**
 - A. Limiting the number of users with access**
 - B. Restricting the space available for user queries**
 - C. Enhancing the efficiency of data retrieval**
 - D. Providing unlimited space for user data**
- 3. What is the purpose of an incident response plan (IRP)?**
 - A. To create a backup of critical data**
 - B. To determine responses to information security incidents**
 - C. To conduct regular software updates**
 - D. To maintain operational continuity**
- 4. What does tracing and tagging in software testing help show?**
 - A. The final performance of the application**
 - B. The user ratings of the software**
 - C. The execution trail of instructions**
 - D. The overall efficiency of the testing process**
- 5. What is an application gateway firewall designed to do?**
 - A. Allow unrestricted access to all services**
 - B. Filter traffic solely based on IP addresses**
 - C. Provide specific proxies for each internet service**
 - D. Monitor all incoming and outgoing network connections**
- 6. What is the primary objective of regression testing?**
 - A. To identify the need for software updates**
 - B. To verify that new errors have not been introduced**
 - C. To assess the usability of the application**
 - D. To conduct a final review before product launch**

- 7. What does functional testing typically involve?**
- A. Analysis of transaction logs.**
 - B. Mobilization of personnel at various geographic sites.**
 - C. Coordination of communication strategies.**
 - D. Use of check digits for validation.**
- 8. Which type of testing is less intensive compared to full-scale and functional tests?**
- A. Tabletop testing**
 - B. Configuration testing**
 - C. Performance testing**
 - D. Descriptive testing**
- 9. What should a proper backup strategy include according to performance outcomes?**
- A. Regular scheduled full backups only**
 - B. Utilization of only cloud-based storage**
 - C. An evaluation between different types of backup**
 - D. Only incremental backups to save space**
- 10. What is the primary function of a honeypot solution?**
- A. To enhance system performance**
 - B. To capture intruder activity**
 - C. To optimize network traffic**
 - D. To protect confidential user data**

Answers

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

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Explanations

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1. Which type of test is primarily aimed at getting real-world exposure to a product?

- A. Unit testing**
- B. Acceptance testing**
- C. Beta testing**
- D. Regression testing**

The type of test that is primarily aimed at getting real-world exposure to a product is beta testing. This phase of testing typically occurs after the product has completed initial development and unit testing. In beta testing, the product is released to a limited number of end-users outside the development team. This approach allows the developers to gather feedback in a real-world environment, ensuring that the product functions as intended and meets user expectations. Beta testing serves several critical purposes, including identifying bugs and issues that may not have been caught during earlier testing phases due to varied user behaviors and usage scenarios. Additionally, it provides valuable insights into user experience, performance, and overall satisfaction, which can inform further enhancements before a full-scale launch. This user-centered feedback is a key element of ensuring the product is robust and user-friendly before its final release.

2. What controls space utilization in a database environment?

- A. Limiting the number of users with access**
- B. Restricting the space available for user queries**
- C. Enhancing the efficiency of data retrieval**
- D. Providing unlimited space for user data**

The correct answer focuses on the practice of managing and controlling the amount of space that can be utilized for user queries within a database environment. By restricting the space available for user queries, database administrators can prevent excessive resource consumption, ensure fair usage among all users, and maintain optimal performance. This control is crucial for efficient database management, as it directly influences how much data can be processed and stored during query operations. Space utilization management is nuanced. It can involve setting quotas or limits that dictate the maximum amount of storage each user or application can consume, which helps to avoid scenarios where a single user could monopolize database resources. Effectively, this control measure ensures that the database remains responsive and efficient for all users, leading to better overall system performance and stability. In this context, other options do not directly address the specific control mechanisms for space utilization in the database. Limiting the number of users with access does not inherently manage space usage but rather controls user access. Enhancing the efficiency of data retrieval is important for performance but does not directly correlate with space usage control. Providing unlimited space for user data would lead to potential resource exhaustion and inefficiencies in database management. Therefore, restricting space for queries stands out as the most pertinent control in this scenario.

3. What is the purpose of an incident response plan (IRP)?

- A. To create a backup of critical data
- B. To determine responses to information security incidents**
- C. To conduct regular software updates
- D. To maintain operational continuity

An incident response plan (IRP) is a critical component of an organization's cybersecurity strategy, designed specifically to provide a structured approach for addressing and managing the aftermath of a security breach or cyberattack. The primary purpose of an IRP is to establish a clear framework for determining responses to information security incidents. This involves identifying the types of incidents that might occur, assessing their potential impact, and outlining the necessary steps to effectively respond, mitigate damage, and recover from such incidents. By having an IRP in place, organizations can ensure that they are prepared to act quickly and efficiently when an incident occurs. This involves designating roles and responsibilities, defining communication protocols, and outlining the steps for containment, eradication, and recovery. It helps organizations respond in a timely manner to minimize the impact of incidents on their operations and information integrity. Other options, while important for overall information security practices, do not encapsulate the core purpose of an incident response plan. Creating backups, conducting software updates, and maintaining operational continuity are all crucial aspects of an organization's security posture, but they do not directly focus on the immediate response to incidents involving breaches or attacks.

4. What does tracing and tagging in software testing help show?

- A. The final performance of the application
- B. The user ratings of the software
- C. The execution trail of instructions**
- D. The overall efficiency of the testing process

Tracing and tagging in software testing are methodologies used to monitor and document the execution flow of an application. This process involves recording the paths taken by instructions during the execution of a program, which helps in understanding how the software is functioning in real-time. By maintaining a detailed execution trail, testers can identify how specific inputs affect outputs, track down errors, and ensure that all code paths have been executed as expected during the testing phase. This is crucial for debugging since it allows testers to visualize how data moves through the system and where potential bottlenecks or failures may occur. By tracing and tagging, the testing team can create a comprehensive map of the application's execution, which aids in validating that all requirements are met, and that the software behaves as intended under various scenarios. Other options focus on different aspects of software quality and testing. The final performance of an application, while important, is typically measured through stress tests or performance testing rather than tracing and tagging. User ratings come from feedback and assessments outside of core software testing activities. The efficiency of the testing process itself may be measured by different metrics, but this does not directly correlate with the execution trail provided by tracing and tagging.

5. What is an application gateway firewall designed to do?

- A. Allow unrestricted access to all services
- B. Filter traffic solely based on IP addresses
- C. Provide specific proxies for each internet service**
- D. Monitor all incoming and outgoing network connections

An application gateway firewall, also known as an application-level firewall or proxy firewall, is specifically designed to provide distinct proxies for each internet service. This serves to enhance security by acting as an intermediary between a user and the services they wish to access, such as web servers, email servers, or FTP servers. By using specialized proxies for each type of service, the firewall is able to inspect and control the traffic more granularly, ensuring that only legitimate requests are processed and potentially harmful data is blocked. This functionality increases the security posture of a network, as it can analyze the content of the data packets, inspect application-layer protocols, and enforce policies that apply to specific applications or services. This level of inspection and control is essential for defending against a variety of threats, including application-layer attacks. In contrast, allowing unrestricted access to all services does not align with the purpose of a firewall, which is to provide a controlled environment. Similarly, filtering traffic solely based on IP addresses lacks the depth needed for effective application-layer security. Monitoring all incoming and outgoing network connections can be a feature of some firewalls but does not adequately address the specific service-based protection that an application gateway firewall offers.

6. What is the primary objective of regression testing?

- A. To identify the need for software updates
- B. To verify that new errors have not been introduced**
- C. To assess the usability of the application
- D. To conduct a final review before product launch

The primary objective of regression testing is to verify that new errors have not been introduced into existing functionalities after changes such as enhancements, bug fixes, or other updates have been made to the software. As software evolves, it is crucial to ensure that new code does not adversely affect existing features, which can lead to unexpected behavior or failures. Regression testing involves re-running previous test cases to validate that the previously working aspects of the application continue to function as intended, thereby maintaining software integrity throughout its development lifecycle. This testing is essential for maintaining quality and reliability in software applications, ensuring that improvements or changes do not compromise the user experience or application performance. By focusing on verifying that no new defects have occurred, regression testing serves as a safeguard, providing confidence that existing functionalities remain intact in the face of changes.

7. What does functional testing typically involve?

- A. Analysis of transaction logs.
- B. Mobilization of personnel at various geographic sites.**
- C. Coordination of communication strategies.
- D. Use of check digits for validation.

Functional testing primarily focuses on verifying that software applications perform according to their specified requirements and functions as expected. This involves validating the features and behaviors of the application under various scenarios. The most relevant aspect of functional testing among the provided options is the mobilization of personnel at various geographic sites. This reflects the collaborative effort often required when testing software, especially in distributed environments or when the application is designed to work across multiple locations. Testing teams may need to coordinate across different sites to ensure the application functions correctly under varied conditions and user interactions. The other options pertain to different activities that do not directly align with the core principles of functional testing. Analysis of transaction logs is more aligned with auditing and performance analysis, coordination of communication strategies typically falls under project management or change management, and the use of check digits for validation relates to data integrity rather than functional testing processes. Hence, the correct response is rooted in the collaborative operational aspects of functional testing, aligning it closer to effective validation of software functionality across multiple user environments.

8. Which type of testing is less intensive compared to full-scale and functional tests?

- A. Tabletop testing**
- B. Configuration testing
- C. Performance testing
- D. Descriptive testing

Tabletop testing is a type of testing that involves discussion-based sessions where stakeholders come together to simulate a response to a scenario without the need for physical execution. It is less intensive because it does not require extensive resources or setups, making it more of a conceptual exercise rather than a rigorous testing process. This method focuses on analyzing workflows, processes, and roles in a low-pressure environment to identify potential gaps or improvements in emergency response, incident management, or business continuity plans. In contrast, full-scale and functional tests generally involve comprehensive and detailed operational or performance evaluations that require significant planning, execution, and often real-time conditions to assess system reliability and effectiveness. The nature of these tests is to rigorously validate that systems perform as expected under various conditions, which can make them much more resource-intensive and complex compared to tabletop testing.

9. What should a proper backup strategy include according to performance outcomes?

- A. Regular scheduled full backups only**
- B. Utilization of only cloud-based storage**
- C. An evaluation between different types of backup**
- D. Only incremental backups to save space**

A proper backup strategy is integral to ensuring data availability and integrity, and it should encompass various types of backups and approaches to effectively meet organizational needs. Evaluating the different types of backups allows organizations to balance performance, recovery time, data integrity, and storage requirements. Considering diverse backup types—such as full backups, incremental backups, and differential backups—enables organizations to optimize their approach based on their specific recovery objectives. For instance, full backups provide a comprehensive snapshot of all data, while incremental backups capture only the changes since the last backup, offering space-saving advantages. An analysis of these options allows for a strategic selection that aligns with both data recovery priorities and resource limitations. In contrast to the other options, relying solely on one method, like regular scheduled full backups or only incremental backups, may not cover all recovery scenarios effectively. Utilizing only cloud-based storage can also limit flexibility and control over backup processes. A well-rounded backup strategy should consider the organization's operational context, risk tolerance, and recovery requirements, making the evaluation of backup types critical for effective incident response and data protection.

10. What is the primary function of a honeypot solution?

- A. To enhance system performance**
- B. To capture intruder activity**
- C. To optimize network traffic**
- D. To protect confidential user data**

The primary function of a honeypot solution is to capture intruder activity. Honeypots are intentionally designed to appear vulnerable and attractive to potential attackers. By luring intruders into these decoy systems, organizations can monitor their techniques, tactics, and procedures in a controlled environment. This information is invaluable for improving an organization's overall security posture, identifying vulnerabilities in legitimate systems, and gathering threat intelligence. Honeypots typically do not enhance system performance, optimize network traffic, or directly protect confidential user data. Instead, they serve as a proactive measure for threat detection and response by providing insights into attacker behavior and the tools they utilize, thereby allowing organizations to better secure their real systems and data.