

1. A development team has developed and is currently maintaining a customer-facing web application which is hosted at their regional office versus at the central data center. The GREATEST risk in this scenario is that:
 - a. Additional traffic of the web site would slow down Internet access for the regional office
 - b. Development team may lack the expertise and staffing to manage and maintain a hosted application environment
 - c. Regional office may not have the same level of fire detection and suppression that exists at the main data center
 - d. Regional office may not have a firewall or network that is sufficiently secure for a web server

2. Which of the following is the GREATEST risk to the effectiveness of application system controls?
 - a. Removal of manual processing steps
 - b. Inadequate procedure manuals
 - c. Collusion between employees
 - d. Unresolved regulatory compliance issues

3. A business application system accesses a corporate database using a single ID and password embedded in a program. Which of the following would provide efficient access control over the organization's data?
 - a. Introduce a secondary authentication method such as a card swipe
 - b. Apply role-based permissions within the application system
 - c. Have users input the ID and password for each database transaction
 - d. Set an expiration period for the database password embedded in the program

4. An Information System (IS) auditor finds that a database administrator (DBA) has read and write access to production data. The IS auditor should:
 - a. Accept the DBA access as a common practice
 - b. Assess the controls relevant to the DBA function
 - c. Recommend the immediate revocation of the DBA access to production data
 - d. Review user access authorizations approved by the DBA

5. Inadequate programming and coding practices introduce the risk of:
 - a. Phishing
 - b. Buffer overflow exploitation
 - c. Denial of service attack through synchronization (SYN) flood
 - d. Brute force attacks

6. Which of the following is a control that can be implemented if application programmers are allowed to move programs into the production environment in a small organization?
 - a. Independent post-implementation testing
 - b. Independent review of the changed program
 - c. Independent review of user requirements
 - d. Independent review of user acceptance

7. Which of the following groups would create MOST concern to an IS auditor if they have direct full access to the production database?
 - a. Application testers
 - b. System administrators
 - c. The database owner
 - d. The data recovery team

8. During an audit of an internally developed, web-based purchase approval application, an IS auditor discovers that all business users share a common access profile. Which of the following is the MOST important recommendation for the IS auditor to include in the report?
 - a. Ensure that all user activity is logged and that the logs are reviewed by management
 - b. Develop additional profiles within the application to restrict user access per the job profiles
 - c. Ensure that a policy exists to control what activities users can perform within the application
 - d. Ensure that a virtual private network (VPN) is implemented so that users can log on to the application securely

9. Which of the following should an IS auditor be MOST concerned about in a financial application?
 - a. Programmers have access to application source code
 - b. Secondary controls are documented for identified role conflicts
 - c. The information security officer does not authorize all application changes
 - d. Programmers have access to the production database

10. Which of the following prevention control BEST helps secure a web application?
 - a. Password masking
 - b. Developer training
 - c. Encryption
 - d. Vulnerability testing

11. An organization is developing a new web-based application to process orders from customers. Which of the following security measures should be taken to protect this application from hackers?
 - a. Ensure that ports 80 and 443 are blocked at the firewall
 - b. Inspect file and access permissions on all servers to ensure all files have read-only access
 - c. Perform a web application security review
 - d. Make sure that only IP addresses of existing customers are allowed through the firewall

12. Which control is the BEST way to ensure that the data in a file have not been changed during transmission?
 - a. Reasonableness check
 - b. Parity bits
 - c. Hash values
 - d. Check digits