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**QUESTION 1**

Which of the following allows computation and analysis of data within a ciphertext without knowledge of the plaintext?

- A. Lattice-based cryptography
- B. Quantum computing
- C. Asymmetric cryptography
- D. Homomorphic encryption

Correct Answer: D

Reference: <https://searchsecurity.techtarget.com/definition/cryptanalysis>

QUESTION 2

A company created an external, PHP-based web application for its customers. A security researcher reports that the application has the Heartbleed vulnerability. Which of the following would BEST resolve and mitigate the issue? (Choose two.)

- A. Deploying a WAF signature
- B. Fixing the PHP code
- C. Changing the web server from HTTPS to HTTP
- D. Using SSLv3
- E. Changing the code from PHP to ColdFusion
- F. Updating the OpenSSL library

Correct Answer: BF

QUESTION 3

Company A acquired Company B. During an initial assessment, the companies discover they are using the same SSO system. To help users with the transition. Company A is requiring the following:

1.
Before the merger is complete, users from both companies should use a single set of usernames and passwords.

2.
Users in the same departments should have the same set of rights and privileges, but they should have different sets of rights and privileges if they have different IPs.

- 3.



Users from Company B should be able to access Company A's available resources.

Which of the following are the BEST solutions? (Choose two.)

- A. Installing new Group Policy Object policies
- B. Establishing one-way trust from Company B to Company A
- C. Enabling SAML
- D. Implementing attribute-based access control
- E. Installing Company A's Kerberos systems in Company B's network
- F. Updating login scripts

Correct Answer: BC

QUESTION 4

A network engineer is concerned about hosting web, SFTP, and email services in a single DMZ that is hosted in the same security zone. This could potentially allow lateral movement within the environment. Which of the following should the engineer implement to mitigate the risk?

- A. Put all the services on a single host to reduce the number of servers.
- B. Create separate security zones for each service and use ACLs for segmentation.
- C. Keep the web server in the DMZ and move the other server services to the internal network.
- D. Deploy a switch and create VLANs for each service.

Correct Answer: B

QUESTION 5

A network administrator who manages a Linux web server notices the following traffic:

`http://comptia.org/../../../../etc/shadow`

Which of the following is the BEST action for the network administrator to take to defend against this type of web attack?

- A. Validate the server certificate and trust chain.
- B. Validate the server input and append the input to the base directory path.
- C. Validate that the server is not deployed with default account credentials.
- D. Validate that multifactor authentication is enabled on the server for all user accounts.



Correct Answer: B

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