

# Sample Questions with Answers

## Cybersecurity - Cryptography

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Cybersecurity

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### Question 1:

In symmetric encryption, the same key is used for both encryption and decryption.

**[ANSWER] Answer & Explanation:**

True. Symmetric encryption uses a single shared key for both encrypting and decrypting data.

### Question 2:

AES stands for Advanced \_\_\_\_\_ Standard.

**[ANSWER] Answer & Explanation:**

AES (Advanced Encryption Standard) is a widely used symmetric encryption algorithm.

### Question 3:

Which cryptographic concept ensures data has not been tampered with?

**[ANSWER] Answer & Explanation:**

Integrity ensures that data has not been altered or tampered with during transmission or storage.

#### Question 4:

Digital signatures provide both authentication and non-repudiation.

#### [ANSWER] Answer & Explanation:

True. Digital signatures verify the sender's identity (authentication) and prevent denial of sending (non-repudiation).

#### Question 5:

Which cryptographic concept provides forward secrecy in communication protocols?

#### [ANSWER] Answer & Explanation:

Ephemeral key exchange generates temporary session keys that provide forward secrecy by ensuring past communications remain secure even if long-term keys are compromised.

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