

Quizzes: Chapter 16

1. Three security goals are _____.
 - a. confidentiality, cryptography, and nonrepudiation
 - b. confidentiality, encryption, and decryption
 - c. confidentiality, integrity, and availability
 - d. confidentiality, denial of service, and masquerading**Correct Answer: (c)**

2. Which of the following attacks is threatening integrity?
 - a. Masquerading
 - b. Traffic Analysis
 - c. Denial of service
 - d. Encoding**Correct Answer: (a)**

3. Which of the following attacks is threatening availability?
 - a. Replaying
 - b. Modification
 - c. Denial of service
 - d. Decoding**Correct Answer: (c)**

4. _____ means concealing the contents of a message by enciphering.
 - a. Steganography
 - b. Cryptography
 - c. Compressing
 - d. Authentication

Correct Answer: (b)

5. _____ means concealing the message by covering it with something else.

- a. Cryptography
- b. Steganography
- c. Compressing
- d. Authentication

Correct Answer: (b)

6. In _____ cryptography, the same key is used by the sender and the receiver.

- a. symmetric-key
- b. asymmetric-key
- c. public-key
- d. open-key

Correct Answer: (a)

7. In _____ cryptography, the same key is used in both directions.

- a. symmetric-key
- b. asymmetric-key
- c. public-key
- d. open-key

Correct Answer: (a)

8. _____ cryptography is often used for long messages.

- a. Symmetric-key
- b. Asymmetric-key
- c. Public-key
- d. Open-key

Correct Answer: (a)

9. _____ cryptography is often used for short messages.

- a. Symmetric-key
- b. Asymmetric-key
- c. Secret-key
- d. Open-key

Correct Answer: (b)

10. _____ means that the sender and the receiver expect confidentiality.

- a. Nonrepudiation
- b. Integrity
- c. Authentication
- d. encryption and decryption

Correct Answer: (d)

11. _____ means that the data must arrive at the receiver exactly as they were sent.

- a. Nonrepudiation
- b. Message integrity
- c. Authentication
- d. Secrecy

Correct Answer: (b)

12. _____ can provide authentication, integrity, and nonrepudiation for a message.

- a. Encryption/decryption
- b. Digital signature
- c. Compression
- d. Key-exchange

Correct Answer: (b)

13. In _____, the identity of a party is verified once for the entire duration of system access.

- a. entity authentication
- b. message integrity
- c. message authentication
- d. message encryption

Correct Answer: (a)

14. In _____ cryptography, everyone has access to everyone's public key.

- a. symmetric-key
- b. asymmetric-key
- c. secret-key
- d. private-key

Correct Answer: (b)

15. In the asymmetric-key method used for confidentiality, which key(s) is (are) publicly known?
- a. encryption key only
 - b. decryption key only
 - c. both encryption and decryption keys
 - d. neither encryption key nor decryption key

Correct Answer: (b)

16. The RSA algorithm for confidentiality uses _____ cryptography.
- a. asymmetric-key
 - b. symmetric-key
 - c. substitution
 - d. transposition

Correct Answer: (a)

17. In RSA, if user A wants to send an encrypted message to user B, the plaintext is encrypted with the public key of _____.
- a. user A
 - b. user B
 - c. the network
 - d. a third party.

Correct Answer: (b)

