

1. What is the primary goal of security?

- A) Ensuring confidentiality
- B) Providing availability
- C) Maintaining integrity
- D) All of the above

View answer

Answer: D) All of the above

Explanation: Security aims to ensure confidentiality, availability, and integrity of data and resources.

2. Which of the following is NOT a basic security terminology?

- A) Threat
- B) Intrusion
- C) Exploit
- D) Analysis

View answer

Answer: D) Analysis

Explanation: Threat, intrusion, and exploit are common security terminologies, while analysis is a process.

3. Which security principle focuses on ensuring that information is only accessible to authorized parties?

- A) Confidentiality
- B) Integrity
- C) Availability
- D) Authentication

View answer

Answer: A) Confidentiality

Explanation: Confidentiality ensures that information is protected from unauthorized access.

4. Which mathematical theorem states that every composite number has a prime factorization?
- A) Fermat's Theorem
 - B) Euler's Theorem
 - C) Fundamental Theorem of Arithmetic
 - D) Chinese Remainder Theorem

View answer

Answer: C) Fundamental Theorem of Arithmetic

Explanation: The Fundamental Theorem of Arithmetic states that every composite number can be expressed uniquely as a product of prime numbers.

5. What is the process of verifying the identity of a user or system?
- A) Authorization
 - B) Authentication
 - C) Encryption
 - D) Decryption

View answer

Answer: B) Authentication

Explanation: Authentication is the process of confirming the identity of a user or system.

6. Which security attack involves exploiting vulnerabilities to gain unauthorized access or perform malicious actions?
- A) Denial of Service (DoS)
 - B) Man-in-the-Middle (MitM)
 - C) Phishing
 - D) Exploit

View answer

Answer: D) Exploit

Explanation: Exploits involve taking advantage of vulnerabilities to compromise security.

7. Which mathematical concept is crucial for cryptographic algorithms like RSA?
- A) Prime Number
 - B) Modular Arithmetic
 - C) Discrete Logarithm
 - D) Chinese Remainder Theorem

View answer

Answer: A) Prime Number

Explanation: Prime numbers play a fundamental role in many cryptographic algorithms, including RSA.

8. Which security principle ensures that data is accurate and reliable?

- A) Confidentiality
- B) Integrity
- C) Availability
- D) Nonrepudiation

View answer

Answer: B) Integrity

Explanation: Integrity ensures that data remains accurate and unaltered.

9. What type of attack aims to overwhelm a system with excessive traffic, rendering it unavailable to legitimate users?
- A) Phishing
 - B) Spoofing
 - C) Denial of Service (DoS)
 - D) Man-in-the-Middle (MitM)

View answer

Answer: C) Denial of Service (DoS)

Explanation: DoS attacks flood a system with traffic, making it inaccessible to legitimate users.

10. Which theorem states that if p is a prime number and a is any positive integer less than p , then $a^{(p-1)} \equiv 1 \pmod{p}$?
- A) Fermat's Theorem
 - B) Euler's Theorem
 - C) Chinese Remainder Theorem
 - D) Fundamental Theorem of Arithmetic

View answer

Answer: A) Fermat's Theorem

Explanation: Fermat's Little Theorem is a fundamental theorem in number theory, which has applications in cryptography.

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