

D.No:22PCA137

22PCA138

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II-MCA

Library Work

TITLE: Security Requirements and Attacks

1. What does "CIA" stand for in the context of security requirements?

- a) Central Intelligence Agency
- b) Confidentiality, Integrity, Availability
- c) Computer Incident Assessment
- d) Comprehensive Intrusion Analysis

Answer: b) Confidentiality, Integrity, Availability

2. Which security principle ensures that data is accurate, consistent, and reliable?

- a) Authentication
- b) Authorization
- c) Integrity
- d) Confidentiality

Answer: c) Integrity

3. A software vulnerability that allows an attacker to execute arbitrary code is known as:

- a) Malware
- b) Phishing
- c) Zero-day exploit

d) Denial of Service (DoS)

Answer: c) Zero-day exploit

4. What is the primary purpose of a firewall in a network security setup?

- a) Encrypt data transmission
- b) Provide physical security
- c) Prevent unauthorized access
- d) Amplify network speed

Answer: c) Prevent unauthorized access

5. A technique where an attacker tricks a user into revealing confidential information is called:

- a) Spoofing
- b) Encryption
- c) Hijacking
- d) Social engineering

Answer: d) Social engineering

6. Which security measure involves converting readable data into an unreadable form?

- a) Intrusion Detection
- b) Authentication
- c) Encryption
- d) Biometrics

Answer: c) Encryption

7. A type of attack where an attacker attempts to overwhelm a system by flooding it with excessive traffic is called:

- a) Malware
- b) Phishing
- c) DoS (Denial of Service)
- d) Spoofing

Answer: c) DoS (Denial of Service)

8. What is the main purpose of a "penetration test" in the context of security?

- a) Protecting sensitive data
- b) Simulating a cyber attack
- c) Distributing malware
- d) Generating encryption keys

Answer: b) Simulating a cyber attack

9. Which of the following authentication factors uses physical traits like fingerprints or retina scans?

- a) Password
- b) Token
- c) Biometrics
- d) PIN

Answer: c) Biometrics

10. What is the term for the practice of limiting user permissions to only what is necessary for their role?

- a) Firewalling
- b) Encryption
- c) Least Privilege
- d) Multifactor Authentication

Answer: c) Least Privilege