

Cybersecurity Fundamentals Quiz

Instructions: Select the best answer(s). Multi-select where noted.

- Q1.** SQL injection primarily exploits:
- (A) Insufficient input sanitization
 - (B) Cross-origin resource sharing
 - (C) Broken authentication
 - (D) Insecure deserialization
- Q2.** (Multi-select) Common *symmetric* encryption algorithms are:
- (A) AES
 - (B) RSA
 - (C) DES
 - (D) ECC
- Q3.** The **CIA** triad stands for:
- (A) Confidentiality, Integrity, Availability
 - (B) Compliance, Investigation, Audit
 - (C) Control, Identification, Authentication
 - (D) Confidentiality, Identification, Authorization
- Q4.** A *zero-day* vulnerability is:
- (A) Disclosed but unpatched
 - (B) Known for over 30 days
 - (C) Patched but publicly unknown
 - (D) Under active exploit with a patch available
- Q5.** (Multi-select) Multi-factor authentication factors include:
- (A) Something you know
 - (B) Something you have
 - (C) Something you are
 - (D) Something you want
- Q6.** A firewall operating at OSI layer 7 is called an:

- (A) Packet-filtering firewall
- (B) Stateful inspection firewall
- (C) Application firewall
- (D) Network address translation device

Q7. The principle of *least privilege* means:

- (A) Users get maximum permissions
- (B) Assign only the permissions necessary to perform tasks
- (C) Segregate duties
- (D) Elevate privileges during incident response