

# 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