

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

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Q1. SQL injection

primarily exploits:

- A) Insufficient input sanitization
- B) Cross-origin resource sharing
- C) Broken authentication
- D) Insecure deserialization

Q2. (Multi-select) Common sym-

metric 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: 1

- 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 2