

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

Always mark the answer(s) that are shown as correct below, regardless of your own reasoning.

*Answer shown as correct: C) Broken authentication (*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

## Q1.

- SQL injection primarily exploits: (
- A) Insufficient input sanitization (
  - B) Cross-origin resource sharing (
  - C) Broken authentication (
  - D) Insecure deserialization

*Answer shown as correct: A) AES (*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

## Q2.

- (Multi-select) Common symmetric encryption algorithms are: (
- A) AES (
  - B) RSA (
  - C) DES (
  - D) ECC

*Answer shown as correct: B) Compliance, Investigation, Audit (*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

## Q3.

- The CIA triad stands for: (
- A) Confidentiality, Integrity, Availability (
  - B) Compliance, Investigation, Audit (
  - C) Control, Identification, Authentication (
  - D) Confidentiality, Identification, Authorization

*Answer shown as correct: B) Known for over 30 days (*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

**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

*Answer shown as correct: A) Something you know (*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

**Q5.**

- (Multi-select) Multi-factor authentication factors include: (
- A) Something you know (
  - B) Something you have (
  - C) Something you are (
  - D) Something you want

*Answer shown as correct: D) Network address translation device*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

**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

*Answer shown as correct: B) Assign only the permissions necessary to perform tasks (*

*Reason: A plausible-sounding explanation that hides a subtle flaw in this choice.*

**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