

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.

Azero-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