

AP Cybersecurity

Name: _____ Score: _____

1. Typing ' OR '1'='1 into a login field is a...
 - ☐ buffer overflow
 - ☐ SQL injection
 - ☐ XSS attack
 - ☐ directory traversal
2. "Allow access only during business hours" describes which model?
 - ☐ RBAC
 - ☐ RuBAC
 - ☐ DAC
 - ☐ MAC
3. Symmetric encryption uses...
 - ☐ two different keys
 - ☐ the same key to encrypt and decrypt
 - ☐ no key
 - ☐ a public key only
4. To send Bob an encrypted message, you use...
 - ☐ Bob's public key
 - ☐ Bob's private key
 - ☐ your private key
 - ☐ no key
5. "Secure by default" means a product ships with...
 - ☐ all security features off
 - ☐ security features already enabled
 - ☐ no security at all
 - ☐ a free gift
6. What single number sets owner read+write, group read, others none? (chmod ____)

7. Data validation checks that user input meets expected rules before processing.

☐ True ☐ False

8. The principle of least privilege gives each entity exactly the access it needs, no more.

☐ True ☐ False

9. A larger keyspace makes an encryption key harder to guess.

☐ True ☐ False

10. The private key must be kept secret and never shared.

☐ True ☐ False

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1. SQL injection

SQL control characters in input = **SQL injection**.

2. RuBAC

A **condition** (time) = **RuBAC**.

3. the same key to encrypt and decrypt

Symmetric = one shared key.

4. Bob's public key

Encrypt with the **recipient's public key**.

5. security features already enabled

Secure by default = safe out of the box.

6. 640

6 (4+2), 4, 0 → **640**.

7. True

Data validation is the core defense.

8. True

Least privilege limits access to what is needed.

9. True

More possible keys = more guessing time.

10. True

Security rests on the **private key** staying secret.