**ACTIVIDAD # 9**

**Tipo actividad: Multiple Choice Question**

**Multiple-choice game about the previous reading.**

1. What does the term "ciphertext" refer to in cryptography?

- a) Original human-readable message

- b) Encryption key

- c) Encrypted message

- d) Decryption algorithm

2. Which cryptographic principle emphasizes that a cryptographic system should remain secure even if everything about the system, except the key, is public knowledge?

- a) Shannon's Principle

- b) Kerckhoffs's Principle

- c) Caesar's Principle

- d) Vigenere's Principle

3. What is the primary purpose of hashing algorithms in cryptography?

- a) Data confidentiality

- b) Authentication

- c) Data integrity

- d) Non-repudiation

4. In asymmetric cryptography, what does the public key do?

- a) Decrypts messages

- b) Encrypts messages

- c) Both encrypts and decrypts messages

- d) Generates hash values

5. What is the main purpose of Public Key Infrastructure (PKI) in cryptography?

- a) Data confidentiality

- b) Authentication and non-repudiation

- c) Password storage

- d) Symmetric key generation