**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