Introduction to Cryptography

Information Technology · Practice Test · 8 Questions

1. What is the primary purpose of cryptography?

A) To increase internet speed
B) To secure communication and data
C) To compress large files
D) To design user interfaces

2. Which term describes the process of converting readable information into an unreadable format?

A) Decoding
B) Transmission
C) Encryption
D) Hashing

3. What is the name for the scrambled, unreadable version of a message?

A) Ciphertext
B) Plaintext
C) Metadata
D) Algorithm

4. What is the name for the original, readable message before it is encrypted?

A) Secret text
B) Plaintext
C) Bytecode
D) Binary

5. In a simple Caesar cipher, how is the data transformed?

A) By swapping binary bits
B) By shifting letters in the alphabet
C) By deleting every second word
D) By changing the font style

6. What is a 'key' used for in the context of encryption?

A) To physically lock a computer
B) To reset a forgotten password
C) To encrypt or decrypt data
D) To speed up a network connection

7. Which of the following is a symmetric encryption method where the same key is used for both locking and unlocking?

A) Caesar cipher
B) Public-key infrastructure
C) Multi-factor authentication
D) Network firewall

8. What is the process of converting ciphertext back into its original readable form?

A) Encoding
B) Decryption
C) Hacking
D) Compressing