

Introduction to Cryptography

Information Technology · Answer Key · 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