

Cryptography Essentials

Cryptography · Practice Test · 15 Questions

1. What is the primary purpose of cryptography?

- A) To increase file size
- B) To secure communication and information
- C) To speed up internet connections
- D) To delete data permanently

2. Which term refers to the process of turning readable information into unreadable code?

- A) Decoding
- B) Encryption
- C) Compression
- D) Hashing

3. What is the readable, original message before it is encrypted called?

- A) Ciphertext
- B) Plaintext
- C) Metadata
- D) Key

4. In cryptography, what is a 'key' used for?

- A) To physically lock a computer
- B) To perform encryption and decryption algorithms
- C) To reset a forgotten password
- D) To connect to Wi-Fi

5. What is the name for the encrypted, unreadable version of a message?

- A) Plaintext
- B) Ciphertext
- C) Source code
- D) Binary

6. Which of these is a historical method of encryption using letter shifting?

- A) Caesar cipher
- B) Morse code
- C) Binary encoding
- D) Base64

7. What does the 'S' in HTTPS stand for?

- A) System
- B) Secure
- C) Standard
- D) Server

8. Symmetric encryption relies on which of the following?

- A) One shared secret key
- B) Multiple public keys
- C) No keys at all
- D) Random password generation

9. Which mathematical field is fundamental to modern cryptography?

- A) Biology
- B) Number theory
- C) Architecture
- D) Linguistics

10. What is a 'hash function' in cryptography commonly used for?

- A) Converting text into images
- B) Verifying data integrity
- C) Increasing data storage space
- D) Compressing video files

11. Which type of cryptography uses a public key and a private key?

- A) Asymmetric encryption
- B) Symmetric encryption
- C) Simple substitution
- D) Monoalphabetic cipher

12. The Enigma machine was famously used during which historical period?

- A) The Industrial Revolution
- B) World War II
- C) The Space Race
- D) The Cold War

13. What does the process of 'decryption' perform?

- A) Converts ciphertext back to plaintext
- B) Converts plaintext to ciphertext
- C) Deletes the encryption key
- D) Adds a digital signature

14. Which of the following is a common hashing algorithm?

- A) SHA-256
- B) AES
- C) RSA
- D) Caesar

15. What is a 'digital signature' used to verify?

- A) The size of a file
- B) The authenticity and integrity of a message
- C) The internet speed
- D) The user's password