Cryptography Essentials

Cryptography · Answer Key · 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

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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

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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