Fundamentals of Cryptography

Cryptography · Answer Key · 12 Questions

1. Which ancient civilization is credited with using one of the earliest known substitution ciphers by shifting letters in the alphabet?

A) The Romans
B) The Egyptians
C) The Mayans
D) The Greeks

2. What is the specific name of the famous shift cipher used by Julius Caesar to communicate with his generals?

A) The Spartan Box
B) The Caesar Cipher
C) The Roman Grid
D) The Latin Key

3. In cryptography, what is the term for the original, readable message before it has been transformed into a secret code?

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

4. What device, used during World War II, was famous for its complex rotor mechanism to encrypt military messages?

A) The Enigma Machine
B) The Abacus
C) The Telegraph
D) The Typewriter

5. What is the process of converting an unreadable, encoded message back into its original, readable form?

A) Encoding
B) Scrambling
C) Decoding
D) Hashing

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6. Which of these is a simple method where letters are rearranged according to a specific pattern, rather than being replaced by other letters?

A) Substitution cipher
B) Transposition cipher
C) Binary code
D) Pixelation

7. What is a 'key' in the context of basic cryptography?

A) A physical metal tool
B) A piece of information used to encrypt or decrypt data
C) A type of secret ink
D) A password for a computer

8. Who was the famous mathematician known for his work in breaking the German Enigma code at Bletchley Park?

A) Isaac Newton
B) Albert Einstein
C) Alan Turing
D) Charles Babbage

9. What is 'steganography' in the study of information security?

A) The art of hiding a message inside another object
B) The use of complex math to lock files
C) The study of ancient alphabets
D) The process of translating languages

10. Which of these is a common tool used in early history to perform a transposition cipher by wrapping a strip of parchment around a rod?

A) A sundial
B) A scytale
C) A compass
D) A prism

11. In modern digital communication, what is the primary purpose of cryptography?

A) To make files take up less space
B) To ensure information remains private and secure
C) To change the color of text
D) To speed up internet connections

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12. What is the term for a code that is so complex that even with modern computers, it is extremely difficult to solve without the key?

A) Simple cipher
B) Broken code
C) Unbreakable cipher
D) Strong encryption