TEST YOUR KNOWLEDGE WITH TOP MULTIPLE CHOICE QUESTIONS

#1. What is the primary purpose of cryptography in computer security?

☐
A. Data Storage
☐
B. Data Integrity
☐
C. Data Confidentiality
☐
D. Data Compression
☐
E. Data Sorting

#2. Which encryption algorithm is symmetric and commonly used for securing data transmission?

☐
A. RSA
☐
B. AES
☐
C. DES
☐
D. SHA
☐
E. HMAC

#3. What is a cryptographic hash function used for?

☐
A. Data Encryption

☐
B. Data Compression
☐
C. Data Integrity
☐
D. Data Sorting
☐
E. Data Storage

#4. Which key is used for decryption in asymmetric cryptography?

☐
A. Private Key
☐
B. Public Key
☐
C. Session Key
☐
D. Master Key
☐
E. Symmetric Key

#5. What does SSL stand for in the context of secure communication over the internet?

☐
A. Secure Socket Layer
☐
B. Secure System Language
☐
C. Secure Server Link
☐
D. Secure Software Library
☐
E. Strong Security Level

#6. Which type of attack involves intercepting and altering communication between two parties without their knowledge?

☐
A. Man-in-the-Middle
☐
B. DDoS
☐
C. Phishing
☐
D. Spoofing
☐
E. Brute Force

#7. What is the primary purpose of a digital signature in cryptography?

☐
A. Data Encryption
☐
B. Data Integrity
☐
C. Data Compression
☐
D. Data Sorting
☐
E. Data Authentication

#8. Which encryption algorithm is known for its use in securing wireless networks under the WEP standard?

☐
A. AES
☐
B. RSA

☐
C. DES
☐
D. RC4
☐
E. SHA

#9. What is the main advantage of asymmetric cryptography over symmetric cryptography?

☐
A. Faster computation
☐
B. Longer key lengths
☐
C. Simplicity of key management
☐
D. Lower security level
☐
E. No need for key exchange

#10. Which of the following is a common symmetric encryption algorithm used for securing messages?

☐
A. Diffie-Hellman
☐
B. RSA
☐
C. ECC
☐
D. AES
☐
E. ElGamal

#11. In public-key cryptography, what is the purpose of a public key?

☐
A. Encryption
☐
B. Decryption
☐
C. Key Exchange
☐
D. Authentication
☐
E. Digital Signature

#12. What is the purpose of an initialization vector (IV) in encryption algorithms like AES?

☐
A. Authenticity
☐
B. Data Compression
☐
C. Randomness
☐
D. Key Generation
☐
E. Data Integrity

#13. Which encryption algorithm is based on mathematical problems related to integer factorization?

☐
A. RSA
☐
B. DES

☐
C. AES
☐
D. HMAC
☐
E. SHA

#14. What is the key length of the widely used AES-256 encryption algorithm?

☐
A. 128 bits
☐
B. 192 bits
☐
C. 256 bits
☐
D. 512 bits
☐
E. 1024 bits

#15. What is the process of converting plaintext into ciphertext called in cryptography?

☐
A. Decryption
☐
B. Hashing
☐
C. Encryption
☐
D. Compression
☐
E. Encoding

#16. Which cryptographic algorithm is commonly used for secure digital signatures and key exchange protocols?

☐
A. RSA
☐
B. AES
☐
C. DES
☐
D. SHA
☐
E. HMAC

#17. What is the primary purpose of a salt in password hashing?

☐
A. Data Encryption
☐
B. Data Integrity
☐
C. Data Compression
☐
D. Data Sorting
☐
E. Password Security

#18. Which type of encryption uses the same key for both encryption and decryption?

☐
A. Asymmetric
☐
B. Symmetric

☐
C. Public Key
☐
D. Private Key
☐
E. One-Time Pad

#19. What is the purpose of a nonce in cryptographic protocols?

☐
A. Random number generation
☐
B. Data Encryption
☐
C. Data Compression
☐
D. Data Integrity
☐
E. Data Storage

#20. Which cryptographic algorithm is commonly used for secure email communication?

☐
A. RSA
☐
B. AES
☐
C. DES
☐
D. PGP
☐
E. HMAC

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Results