TEST YOUR KNOWLEDGE WITH TOP MULTIPLE CHOICE QUESTIONS

#1. What is the process of converting ciphertext back into plaintext called in cryptography?
A. Encryption
B. Hashing
C. Decryption
D. Compression
E. Encoding
#2. Which encryption algorithm is known for its use in digital signatures and is
considered secure for long-term use?
A. RSA
B. DES
C. AES
D. SHA-256
E. HMAC
#3. What is the purpose of a rainbow table in the context of password security?

A. Data Encryption B. Data Compression C. Password Cracking D. Data Sorting E. Data Integrity #4. Which cryptographic hash function is commonly used for password storage and is designed to be slow and computationally intensive?
A. MD5 B. SHA-1 C. SHA-256 D. SHA-512 E. HMAC #5. Which encryption algorithm operates on blocks of data and is often used in modes like ECB, CBC, and OFB?
□ A. RSA □ B. DES □ C. AES

D. HMAC E. MD5 #6. What is the purpose of a digital certificate in the context of web security?
 □ A. Verify user's identity □ B. Encrypt data traffic □ C. Provide access control □ D. Monitor network traffic
E. Authenticate websites #7. Which type of cryptography uses the same key for both encryption and decryption?
□ A. Asymmetric □ B. Symmetric □ C. Public Key □ D. Private Key □ E. Hybrid #8. Which of the following is NOT a symmetric encryption algorithm?
□ A. DES

B. RSA
C. AES
D. 3DES
E. Blowfish
#9. What is the purpose of key exchange algorithms in cryptography?
A. Encrypt data traffic
D. Concrete kove
B. Generate keys
C. Authenticate users
D. Secure email communication
E. Password hashing
#10. Which encryption algorithm is commonly used for secure communication over
the internet and supports key sizes of 128, 192, or 256 bits?
the internet and supports key sizes of 120, 132, of 230 bits:
A. AES
B. DES
C. RSA
D. MD5
E. SHA

#11. In the Diffie-Hellman key exchange protocol, what is exchanged between the parties to establish a shared secret key?
□ A. Private keys
B. Public keys
C. Symmetric keys
D. Session keys
E. Authentication keys
#12. Which type of attack exploits the reuse of initialization vectors (IVs) in
encryption algorithms like WEP and TKIP?
A. Brute Force Attack
B. Man-in-the-Middle
C. Replay Attack
D. Birthday Attack
Collinian Attack
E. Collision Attack
#13. What is the purpose of a nonce in cryptographic protocols?
A. Random number generation
B. Data Encryption

C. Data Compression
D. Data Integrity
D. Data Integrity
E. Data Storage
#14. Which encryption mode ensures that the same plaintext block encrypted multiple times produces different ciphertexts?
mataple times produces directent dipriertexts.
A. Electronic Codebook (ECB)
B. Cipher Block Chaining (CBC)
C. Cipher Feedback (CFB)
D. Output Feedback (OFB)
Counter (CTP)
E. Counter (CTR) #15. Which type of encryption algorithm enerates on a continuous stream of data
#15. Which type of encryption algorithm operates on a continuous stream of data and is commonly used in wireless networks?
and is commonly used in wireless networks:
A. Symmetric stream cipher
D. Asymptotic stream sinker
B. Asymmetric stream cipher
C. Symmetric block cipher
D. Asymmetric block cipher
E. Hash function

#16. What is the main advantage of the elliptic curve cryptography (ECC) algorithm over traditional public-key algorithms?
A. Shorter key lengths
B. Faster computation
C. Simplicity of implementation
D. Higher security level
E. Lower memory requirements
#17. Which cryptographic algorithm is commonly used for secure email
communication and provides both encryption and authentication?
A. RSA
B. AES
C. DES
D. PGP
E. HMAC
#18. What is the purpose of a Hardware Security Module (HSM) in cryptography?
A Congreto kove
A. Generate keys
B. Securely store keys
b. Securery store keys

C. Encrypt data traffic
D. Authenticate users
E. Hashing
#19. In the context of public-key cryptography, what is the purpose of the Certificate Authority (CA)?
A. Encrypt data traffic
B. Store public keys
C. Verify user's identity
D. Generate private keys
E. Sign digital certificates
#20. Which type of encryption algorithm uses the same key for both encryption and decryption and is commonly used for securing data transmission?
A. Symmetric
B. Asymmetric
C. Public Key
D. Hybrid
C. Sassian Kov
E. Session Key

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Results

