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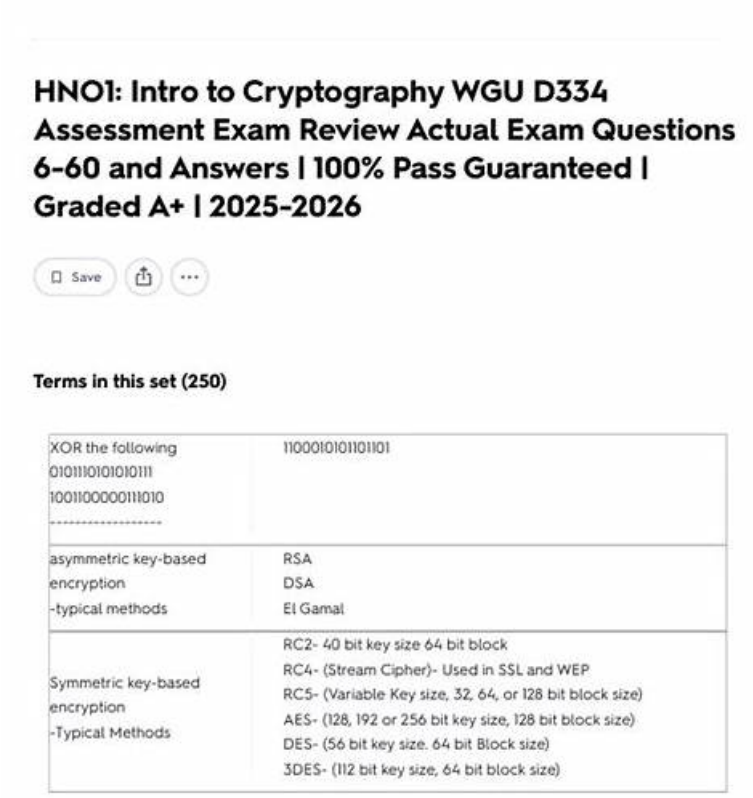

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| XOR the following<br>0101110101010111<br>1001100000111010<br>---------- | 1100010101101101 |
| asymmetric key-based encryption<br>-typical methods | RSA<br>DSA<br>El Gamal |
| Symmetric key-based encryption<br>-Typical Methods | RC2- 40 bit key size 64 bit block<br>RC4- (Stream Cipher)- Used in SSL and WEP<br>RC5- (Variable Key size, 32, 64, or 128 bit block size)<br>AES- (128, 192 or 256 bit key size, 128 bit block size)<br>DES- (56 bit key size. 64 bit Block size)<br>3DES- (112 bit key size, 64 bit block size) |

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## WGU Introduction to Cryptography HNO1 Sample Questions (Q24-Q29):

**NEW QUESTION # 24**
(What is the value of 23 mod 6?)

- A. 05
- B. 06
- C. 04
- D. 03

**Answer: A**

Explanation:
The expression 23 mod 6 asks for the remainder when 23 is divided by 6. Modular arithmetic is foundational in cryptography, especially in public-key systems (RSA, Diffie-Hellman, ECC) where operations occur in finite rings or fields. To compute 23 mod 6, identify the largest multiple of 6 that does not exceed 23. Multiples of 6 are 6, 12, 18, 24. Since 24 is greater than 23, the largest valid multiple is 18. Subtract: 23 # 18 = 5, so the remainder is 5. Therefore, 23 mod 6 = 5, which corresponds to option "05." Modular reduction keeps numbers within a fixed range (0 to modulus#1), enabling stable arithmetic under wraparound behavior. In cryptographic protocols, this wraparound property is essential for defining groups and ensuring operations remain bounded and consistent.

**NEW QUESTION # 25**
(Which type of network were VPN connections originally designed to tunnel through?)

- A. Private
- B. Encrypted
- C. Public
- D. Protected

**Answer: C**

Explanation:
A VPN (Virtual Private Network) is designed to create a secure, private communication channel over an otherwise untrusted or shared infrastructure. Historically and conceptually, VPNs were built to allow organizations and users to transmit sensitive traffic across the public Internet while maintaining confidentiality, integrity, and authenticity. The "virtual" aspect means the network behaves like a private link, but the underlying transport is typically a public network where attackers could potentially observe or tamper with traffic. VPN technologies such as IPsec and SSL/TLS-based VPNs encapsulate packets and apply encryption and authentication so that the payload and session metadata are protected even when traversing public routing domains. Options like "encrypted" and "protected" describe properties of the VPN tunnel itself rather than the underlying network it traverses; the VPN provides encryption/protection precisely because the medium is not inherently secure. "Private" would describe a dedicated internal network, which generally does not require a VPN to achieve basic confidentiality. Therefore, VPNs were originally designed to tunnel through public networks.

**NEW QUESTION # 26**
(What makes the RC4 cipher unique compared to RC5 and RC6?)

- A. Symmetric
- B. Asymmetric
- C. Block
- D. Stream

**Answer: D**

Explanation:
RC4 is unique among the RC family listed because it is a stream cipher. It generates a pseudorandom keystream and encrypts data by XORing that keystream with plaintext bytes (and decryption is the same XOR operation). This differs from RC5 and RC6, which are block ciphers: they encrypt fixed-size blocks of data through multiple rounds of operations (such as modular addition, XOR, and rotations) using a secret key. The stream-cipher design means RC4 historically fit protocols where data arrives continuously (e.g., early wireless and web encryption) and where simple, fast software implementation was desired. However, stream ciphers demand careful handling of nonces/IVs to avoid keystream reuse; reuse can catastrophically leak plaintext relationships. RC4 also has well-documented statistical biases in its keystream, leading to practical attacks in protocols like WEP and later concerns in TLS, which is why RC4 has been deprecated in modern security standards. Still, from a classification standpoint, "stream" is the distinguishing characteristic versus RC5/RC6 being block ciphers.

**NEW QUESTION # 27**
(Which symmetric encryption technique uses a 256-bit key size and a 128-bit block size?)

- A. DES
- B. IDEA
- C. 3DES
- D. AES

**Answer: D**

Explanation:
AES (Advanced Encryption Standard) is a symmetric block cipher standardized to operate on a fixed
128-bit block size and supports key sizes of 128, 192, and 256 bits. When the key size is 256 bits, the cipher is commonly referred to as AES-256, but the block size remains 128 bits regardless of key length.
This combination (256-bit key, 128-bit block) matches the question precisely. By comparison, DES uses a 64-bit block size with a 56-bit effective key. 3DES also uses a 64-bit block size and effectively applies DES three times, yielding an effective key length typically cited as 112 bits (two-key 3DES) or 168 bits (three-key 3DES), depending on how keys are configured. IDEA uses a 64-bit block size with a 128-bit key. Therefore, the only listed algorithm that supports a 256-bit key while maintaining a 128-bit block size is AES. This is one reason AES is widely adopted for modern symmetric encryption: strong key sizes with efficient implementation and broad standardization.

**NEW QUESTION # 28**
(Which cryptographic operation has the fastest decryption process?)

- A. Symmetric
- B. Hashing
- C. Asymmetric
- D. Padding

**Answer: A**

Explanation:
Symmetric cryptography generally provides the fastest encryption and decryption performance among common cryptographic operations. Algorithms like AES and ChaCha20 are designed for high throughput and efficient implementation in software and hardware (e.g., AES-NI acceleration).
Symmetric decryption is computationally similar in cost to symmetric encryption, and both are far faster than asymmetric operations for equivalent security levels. Asymmetric cryptography (RSA, ECC) involves expensive mathematical operations (modular exponentiation or elliptic-curve scalar multiplication), making it much slower and unsuitable for bulk data decryption. That is why real-world secure protocols use asymmetric cryptography primarily to authenticate peers and establish keys, then switch to symmetric encryption for the actual data stream. Hashing is not decryption at all; it is one- way, and there is no "decrypt" operation for a hash. Padding is not a decryption mechanism; it is a formatting step used with block ciphers to align plaintext length. Therefore, the correct choice for the operation with the fastest decryption process is symmetric cryptography.

**NEW QUESTION # 29**

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