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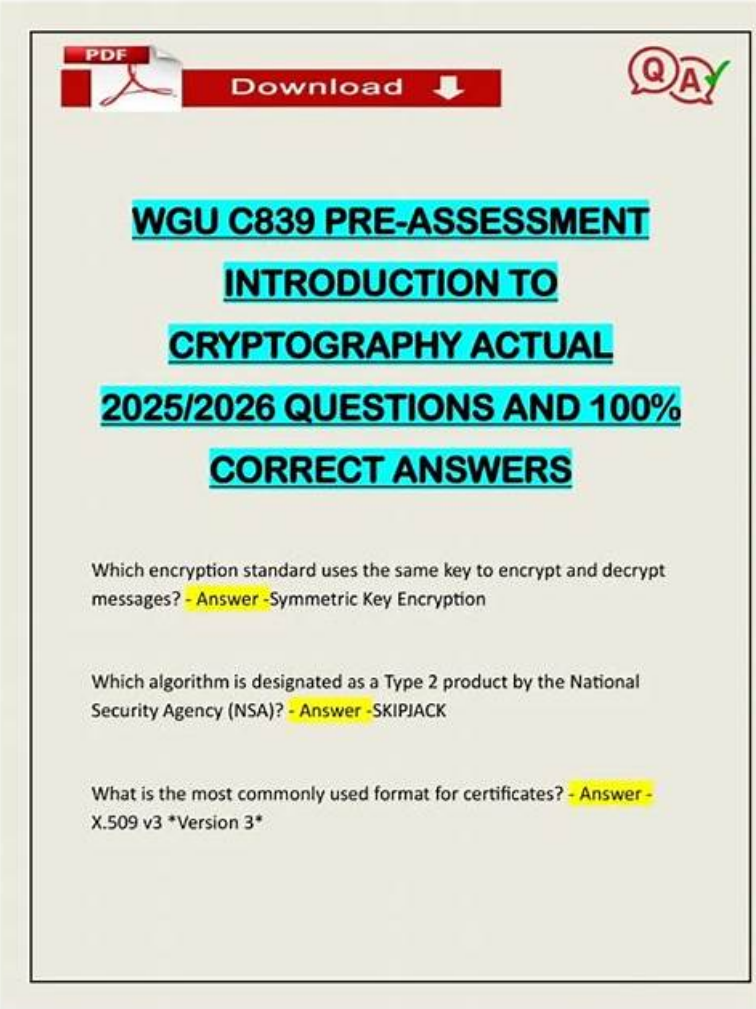

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WGU Introduction to Cryptography HNO1 Sample Questions (Q50-Q55):

NEW QUESTION # 50
(Which symmetric encryption technique uses a 256-bit key size and a 128-bit block size?)

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

Answer: B

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 # 51
(Which cryptographic operation uses a single key?)

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

Answer: A

Explanation:
Symmetric cryptography uses a single shared secret key for both encryption and decryption. This contrasts with asymmetric cryptography, which uses a key pair (public/private). Symmetric algorithms (like AES, ChaCha20) are efficient and well-suited for bulk data encryption, but they require a secure method for key distribution because both parties must possess the same secret.
Hashing is not a keyed operation by default (though HMAC is keyed); it maps arbitrary data to a fixed-size digest and is primarily used for integrity checking, fingerprints, and password hashing constructions. Padding is a data formatting technique (e.g., PKCS#7) used to align plaintext to a block size; it is not a cryptographic "operation" that uses a key.
Therefore, the cryptographic operation characterized by using one key shared between parties is symmetric encryption. In real systems, symmetric encryption is frequently combined with asymmetric methods for key exchange and with MACs/AEAD for integrity, producing the standard hybrid approach used in protocols like TLS and IPsec.

NEW QUESTION # 52
(What is the primary purpose of the Health Insurance Portability and Accountability Act (HIPAA) in relation to encryption?)

- A. To standardize the use of encryption across all industries
- B. To prohibit the use of electronic health records
- C. To allow healthcare providers to encrypt patient records at their discretion
- D. To ensure the confidentiality of patient information through secure measures like encryption

Answer: D

Explanation:
HIPAA is a U.S. regulation focused on protecting the privacy and security of protected health information (PHI). In relation to encryption, HIPAA's Security Rule requires covered entities and business associates to implement appropriate administrative, physical, and technical safeguards to ensure the confidentiality, integrity, and availability of electronic PHI. Encryption is widely recognized as a key technical safeguard for confidentiality-protecting PHI in transit (e.g., over networks) and at rest (e.g., on storage devices) by making data unreadable without the proper keys. HIPAA does not standardize encryption across all industries, nor does it prohibit electronic health records; it regulates how they must be protected. While HIPAA often uses the term "addressable" for encryption controls (meaning organizations must implement it if reasonable and appropriate, or document an equivalent alternative), the overarching purpose remains protection of patient information through secure measures, with encryption as a central mechanism. Therefore, the best answer is ensuring confidentiality of patient information through secure measures like encryption.

NEW QUESTION # 53
(Which authentication method allows a web service installed on a network operating system to prove its identity to a customer?)

- A. End-to-end authentication
- B. Mutual authentication
- C. One-way server authentication
- D. One-way client authentication

Answer: C

Explanation:
One-way server authentication is the standard model used by most TLS-enabled web services to prove the server's identity to a client. In this model, the server presents an X.509 certificate during the TLS handshake.
The client validates the certificate chain to a trusted root CA, checks hostname binding (CN/SAN), validates validity dates, and may check revocation status. If validation succeeds, the client gains cryptographic assurance that it is communicating with the holder of the private key corresponding to the server certificate's public key, and that the certificate is issued to the expected domain/identity. This proves the server's identity to the customer without requiring the customer to present a certificate. Mutual authentication would require both client and server to authenticate each other using certificates (commonly in certain enterprise APIs), but the question asks specifically about the web service proving its identity to the customer, which is satisfied by server-only authentication. One-way client authentication is the opposite direction (client proves identity to server). "End-to-end authentication" is a broader concept and not the specific TLS identity proof mechanism described here. Thus, one-way server authentication is the correct choice.

NEW QUESTION # 54
(What is the maximum key size (in bits) supported by AES?)

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:
AES supports three standardized key sizes: 128, 192, and 256 bits, with a fixed block size of 128 bits. The maximum of these supported key sizes is 256 bits (AES-256). Key size affects resistance to brute-force key search: larger keys exponentially increase the search space. In practice, AES-128 is already considered strong against brute force with contemporary computing capabilities, while AES-256 is often chosen for compliance requirements, conservative security margins, or to hedge against future advances. AES-512 is not part of the AES standard; if 512-bit keys are desired, systems typically use different constructions (like using AES-256 in certain key-derivation or wrapping schemes) rather than changing AES itself. Therefore, the correct maximum supported AES key size is 256 bits.

NEW QUESTION # 55
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