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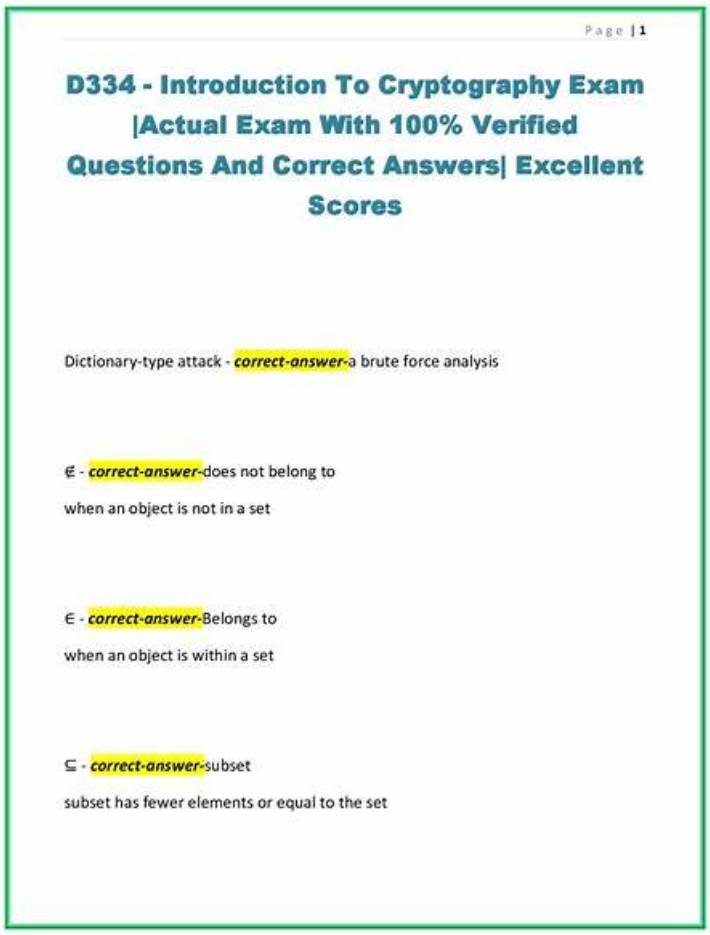

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WGU Introduction to Cryptography HNO1 Sample Questions (Q52-Q57):

NEW QUESTION # 52
(Which cryptographic operation uses a single key?)

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

Answer: D

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 # 53
(Which default port must be allowed by firewalls for the key exchange of the IPsec handshaking process to be successful?)

- A. TCP 443
- B. TCP 500
- C. UDP 443
- D. UDP 500

Answer: D

Explanation:
IPsec's initial key exchange is commonly performed using IKE (Internet Key Exchange), which negotiates Security Associations (SAs), authenticates peers, and establishes shared keys for ESP/AH protection. The traditional and default transport for IKEv1 and IKEv2 is UDP port 500. During negotiation, peers exchange proposals (crypto suites), perform Diffie-Hellman to derive key material, and authenticate using pre-shared keys, certificates, or EAP methods. If a firewall blocks UDP 500, the IKE negotiation cannot begin, preventing IPsec tunnels from forming. In many real deployments, NAT traversal is also used; in that case, traffic typically shifts to UDP 4500 (NAT-T) after detection of NAT, but UDP 500 is still required for the initial exchange and NAT detection in many configurations. TCP
500 is not standard for IKE. Port 443 is associated with HTTPS/TLS and some SSL VPNs, not IPsec IKE. Therefore, among the options provided, the firewall must allow UDP 500 for IPsec key exchange to succeed.

NEW QUESTION # 54
(Which certificate encoding process is binary-based?)

- A. Privacy Enhanced Mail (PEM)
- B. Distinguished Encoding Rules (DER)
- C. Rivest-Shamir-Adleman (RSA)
- D. Public Key Infrastructure (PKI)

Answer: B

Explanation:
DER (Distinguished Encoding Rules) is a binary encoding format used to represent ASN.1 structures in a canonical, unambiguous way. X.509 certificates are defined using ASN.1, and DER provides a strict subset of BER (Basic Encoding Rules) that guarantees a single, unique encoding for any given data structure. That "unique encoding" property is important for cryptographic operations such as hashing and digital signatures, because different encodings of the same abstract data could otherwise produce different hashes and break signature verification. In contrast, PEM is not a binary encoding; it is essentially a Base64-encoded text wrapper around DER data, bounded by header/footer lines (e.g.,
"BEGIN CERTIFICATE"). PKI is an overall framework for certificate issuance, trust, and lifecycle management-not an encoding. RSA is an asymmetric algorithm used for encryption/signing, not a certificate encoding format. Therefore, the binary-based certificate encoding process among the options is DER.

NEW QUESTION # 55
(What describes how Counter (CTR) mode encryption functions?)

- A. Uses a self-synchronizing stream cipher where the IV is encrypted and XORed with the data stream one bit at a time
- B. Converts the block cipher into a stream cipher, then uses a counter value and a nonce to encrypt the data
- C. Encrypts each block with the same key, where each block is independent of the others
- D. Uses an IV to encrypt the first block, then uses the result of the encryption to encrypt the next block

Answer: B

Explanation:
CTR mode turns a block cipher (like AES) into a stream-like construction by generating a keystream from successive encryptions of a changing input block. Specifically, CTR forms input blocks using a nonce (unique per message) combined with an increasing counter. Each nonce||counter block is encrypted with the block cipher under the shared key, producing a pseudorandom output block. That output is then XORed with plaintext to yield ciphertext (and XORed with ciphertext to recover plaintext). This design enables parallelization (blocks can be generated independently), efficient random access decryption, and avoids chaining dependencies seen in modes like CBC. Option B describes CFB-like behavior; option C describes ECB; option D describes CBC. CTR's security critically depends on never reusing the same nonce/counter sequence with the same key, because reuse would repeat keystream blocks and expose plaintext relationships. Therefore, the correct description is that CTR converts the block cipher into a stream cipher using a counter value and a nonce.

NEW QUESTION # 56
(Which symmetric encryption technique uses a 256-bit key size and a 128-bit block size?)

- A. IDEA
- B. DES
- 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 # 57
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