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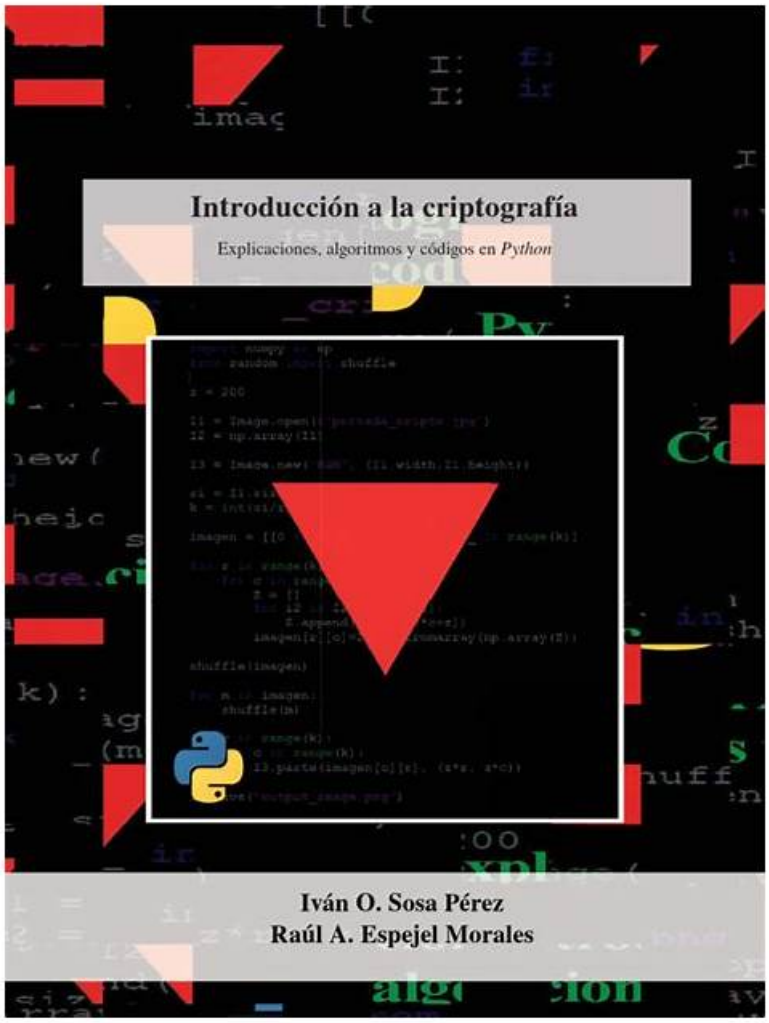

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WGU Introduction to Cryptography HNO1 Sample Questions (Q16-Q21):

NEW QUESTION # 16
(Which additional input element can be used to implement integrity in combination with symmetric ciphers?)

- A. Initialization vector
- B. Encoding algorithm
- C. Nonce value
- D. Hash function

Answer: D

Explanation:
Symmetric encryption alone typically provides confidentiality, but it does not automatically provide integrity. Many encryption modes (especially older ones like CBC without authentication) are malleable, meaning an attacker may be able to modify ciphertext and cause predictable changes in plaintext after decryption. To add integrity, systems commonly combine symmetric encryption with a cryptographic hash-based integrity mechanism, such as a hash function used in an HMAC (Hash-based Message Authentication Code) or a dedicated authenticated-encryption mode like GCM that internally uses authentication tags. Among the given options, a hash function is the fundamental additional element that enables integrity checks: it allows construction of a MAC (e.g., HMAC-SHA-256) that the receiver verifies to detect any tampering. An initialization vector and a nonce value are used to ensure uniqueness and randomness properties for encryption but do not, by themselves, guarantee integrity.
An encoding algorithm changes representation, not security. Therefore, the correct additional input element for implementing integrity alongside symmetric encryption is a hash function, typically as part of an HMAC or similar MAC construction.

NEW QUESTION # 17
(Which encryption algorithm encrypts with one key, decrypts with another key, and then encrypts with the first key?)

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

Answer: C

Explanation:
3DES (Triple DES) commonly uses an Encrypt-Decrypt-Encrypt (EDE) sequence. In the two-key form, it encrypts with key K1, decrypts with key K2, then encrypts again with K1. In the three-key form, it encrypts with K1, decrypts with K2, then encrypts with K3. The EDE construction was chosen partly for backward compatibility: if K1=K2=K3, the scheme reduces to single DES, allowing older systems to interoperate in constrained ways. AES and IDEA do not use an EDE triple-stage process as their defining structure; they are single-pass block ciphers with internal rounds. DES is a single-pass algorithm (one key) rather than a triple application with multiple keys. Therefore, the algorithm described-encrypt with one key, decrypt with another, encrypt with the first-is 3DES. Although now considered legacy, it remains a classic example of increasing effective security by applying a block cipher multiple times with independent keys.

NEW QUESTION # 18
(Which operation can be performed on a certificate during the "Issued" stage?)

- A. Key archiving
- B. Key recovery
- C. Creation
- D. Distribution

Answer: D

Explanation:
The "Issued" stage in a certificate lifecycle indicates that the certificate has been generated and signed by the issuing CA and is now valid for use (subject to validity dates, policy constraints, and revocation status). At this point, the operational focus shifts from

creating the certificate to making it available to the subject and relying parties. "Distribution" is the lifecycle activity most directly associated with an issued certificate: installing it on servers or endpoints, provisioning it into keystores, publishing it to directories if required, and ensuring the chain (intermediates) is accessible for validation. By contrast,
"Creation" is earlier in the process (key generation, CSR creation, identity validation, issuance
/signing). "Key recovery" and "key archiving" relate to private key management and escrow policies (often for encryption keys, not signing keys), and are governed by organizational policy and key management systems rather than the certificate's issued state itself. A certificate can be distributed after issuance regardless of whether any key escrow features exist. Therefore, the operation that fits the certificate's "Issued" stage best is distribution of the issued credential for operational use.

NEW QUESTION # 19
(What are the roles of keys when using digital signatures?)

- A. A public key is used for both signing and signature validation.
- B. A private key is used for both signing and signature validation.
- C. A private key is used for signing, and a public key is used for signature validation.
- D. A public key is used for signing, and a private key is used for signature validation.

Answer: C

NEW QUESTION # 20
(Which number of bits gets encrypted each time encryption is applied during stream encryption?)

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

Answer: B

Explanation:
In the classical definition, a stream cipher encrypts data in very small units-often described as one bit at a time-by combining plaintext with a keystream (commonly via XOR). While many practical stream ciphers operate on bytes or words for efficiency, the conceptual distinction compared to block ciphers is that stream encryption processes data as a continuous stream rather than fixed-size blocks.
This is why the standard teaching answer is "1 bit" per application of the keystream. Block ciphers, by contrast, encrypt blocks like 64 bits (DES/3DES) or 128 bits (AES) in each invocation of the block primitive. Options like 40, 192, and 256 are not typical stream cipher "per-step" processing sizes; 40 and 256 are often associated with key sizes, and 192 could be a key size for AES, not an encryption granularity. The essential security requirement for stream ciphers is that the keystream must be unpredictable and never reused with the same key/nonce combination; otherwise XOR properties allow attackers to recover relationships between plaintexts. Thus, the best answer is 1.

NEW QUESTION # 21
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