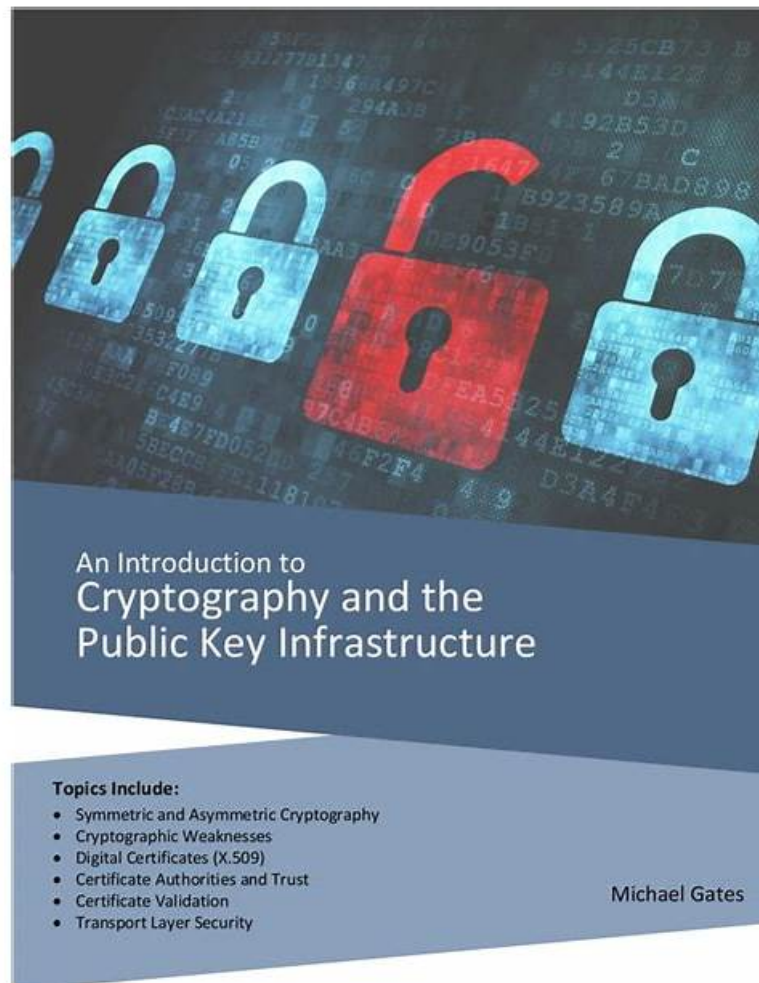


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WGU Introduction to Cryptography HNO1 Sample Questions (Q22-Q27):

NEW QUESTION # 22

(Which cryptographic operation uses a single key?)

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

Answer: B

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 # 23

(How often are transactions added to a blockchain?)

- **A. Approximately every 10 minutes**
- B. Approximately every 30 minutes
- C. Approximately every 1 hour
- D. Approximately every 24 hours

Answer: A

Explanation:

For Bitcoin, transactions are confirmed by inclusion in blocks, and the network targets an average block interval of about 10 minutes. That means transactions are "added" to the Bitcoin blockchain approximately every 10 minutes in the sense that a new block containing a batch of transactions is appended at that cadence.

The 10-minute target is achieved by a difficulty adjustment mechanism that recalibrates mining difficulty roughly every 2016 blocks, aiming to keep the average interval stable despite changes in total network hash power. It is important to note that this is an average: blocks can be found faster or slower in the short term due to the probabilistic nature of proof-of-work mining. Other blockchains have different block times (seconds to minutes), but the question's options and typical curriculum context align with Bitcoin's 10-minute design.

Therefore, the correct choice is approximately every 10 minutes.

NEW QUESTION # 24

(Which mode of encryption uses an Initialization Vector (IV) to encrypt the first block and then uses the result to encrypt the next block?)

- A. Output Feedback (OFB)
- **B. Cipher Block Chaining (CBC)**
- C. Cipher Feedback (CFB)
- D. Electronic Codebook (ECB)

Answer: B

Explanation:

CBC mode introduces dependency between blocks to prevent the pattern leakage seen in ECB. It starts with a random (or unpredictable) IV for the first block. Before encrypting block 1, CBC XORs plaintext block 1 with the IV, then encrypts the result. For block 2 and onward, CBC XORs each plaintext block with the previous ciphertext block before encryption. This chaining means that changing one plaintext block affects that block's ciphertext and also influences the next block's computation. The IV ensures that encrypting the same message twice under the same key produces different ciphertexts (assuming a fresh IV). Option A (ECB) has no IV or chaining. OFB and CFB are feedback modes that effectively generate a keystream; they do use an IV, but the "uses the result to encrypt the next block" wording most directly matches CBC's ciphertext-chaining description in standard teaching. CBC still requires integrity protection (e.g., HMAC or an AEAD mode) because it can be malleable without authentication. Therefore, the correct mode is Cipher Block Chaining (CBC).

NEW QUESTION # 25

(Which attack maps hashed values to their original input data?)

- A. Rainbow table
- B. Dictionary
- C. Birthday
- D. Brute-force

Answer: A

Explanation:

A rainbow table attack uses large, precomputed tables that link hash outputs back to likely original inputs (typically passwords). Instead of storing every password/hash pair directly (which would be huge), rainbow tables store chains created by alternating hash operations with reduction functions, allowing attackers to reconstruct candidate plaintexts that produce a given hash. This makes cracking fast, if the target hashes are unsalted and use a known, fast hash function. Salt defeats rainbow tables because the attacker would need separate tables for each salt value, which becomes infeasible when salts are unique and sufficiently large. A dictionary attack is related but typically computes hashes on the fly from a wordlist rather than using precomputed chain structures. A birthday attack targets collisions, not mapping to original data. Brute-force tries all candidates without precomputation. Because the question explicitly describes mapping hashed values back to original data via a precomputed approach, the correct choice is Rainbow table.

NEW QUESTION # 26

(Which cipher uses shifting letters of the alphabet for encryption?)

- A. SHA-1
- B. Caesar
- C. Vigenere
- D. Bifid

Answer: B

Explanation:

The Caesar cipher is the classic substitution cipher that encrypts by shifting letters of the alphabet by a fixed number of positions (e.g., shift by 3: A#D, B#E, etc.). It is a monoalphabetic cipher because a single shift value is applied uniformly across the entire message, making it simple and vulnerable to frequency analysis and brute force (only 25 meaningful shifts in the Latin alphabet). Vigenere also involves shifting, but it uses a repeating keyword to vary the shift per character (polyalphabetic), whereas the question's phrasing typically points to the fundamental "shift cipher," which is Caesar. SHA-1 is a cryptographic hash function, not a cipher. Bifid is a fractionation cipher combining Polybius square coordinates and transposition, not a direct shifting method. Therefore, the cipher that uses shifting letters of the alphabet for encryption is the Caesar cipher.

NEW QUESTION # 27

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