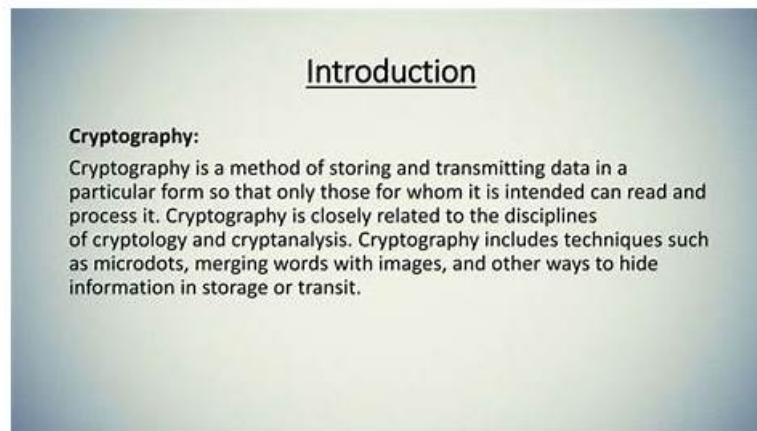


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WGU Introduction to Cryptography HNO1 Sample Questions (Q49-Q54):

NEW QUESTION # 49

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

Answer: B

NEW QUESTION # 50

(How are limits managed for the number of bitcoins that can be created and stored in a blockchain?)

- A. The total number of participants has been set
- **B. Rewards for mining reduce over time**
- C. Each person has a maximum number
- D. A maximum has been established per country

Answer: B

Explanation:

Bitcoin's supply is controlled by protocol rules enforced by consensus: new bitcoins enter circulation through the block subsidy awarded to miners for producing valid blocks. This subsidy is programmed to halve at fixed intervals (every 210,000 blocks), which steadily reduces the rate of new coin creation over time and asymptotically approaches a capped total supply (commonly cited as 21 million BTC).

This mechanism is often called the halving schedule and is the primary way limits are managed. The number of participants is not fixed; anyone can run a node or mine. There is no per-country cap and no per-person maximum enforced by the protocol-addresses and ownership are not limited that way. The supply cap emerges from the decreasing issuance schedule combined with consensus validation rules that reject blocks creating coins beyond what the schedule allows. Therefore, the correct answer is that limits are managed because rewards for mining reduce over time.

NEW QUESTION # 51

(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 # 52

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

Answer: D

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 # 53

(Which component is used to verify the integrity of a message?)

- A. AES
- B. IV
- C. TKIP
- **D. HMAC**

Answer: D

Explanation:

HMAC (Hash-based Message Authentication Code) is a standard mechanism used to verify both integrity and authenticity of a message when two parties share a secret key. It combines a cryptographic hash function (such as SHA-256) with a secret key in a structured way that resists common attacks on naive keyed-hash constructions. The sender computes an HMAC tag over the message and transmits the message plus tag. The receiver recomputes the HMAC using the same shared secret key and compares the result; if the tag matches, the receiver can be confident the message was not modified in transit and that it came from someone who knows the shared key. AES is an encryption algorithm primarily providing confidentiality; it can provide integrity only when used in authenticated modes (e.g., GCM) but "AES" alone is not the integrity component. An IV helps randomize encryption but does not validate integrity. TKIP is a legacy WLAN protocol component, not the general integrity verifier. Therefore, the correct component for verifying message integrity among the options is HMAC.

NEW QUESTION # 54

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