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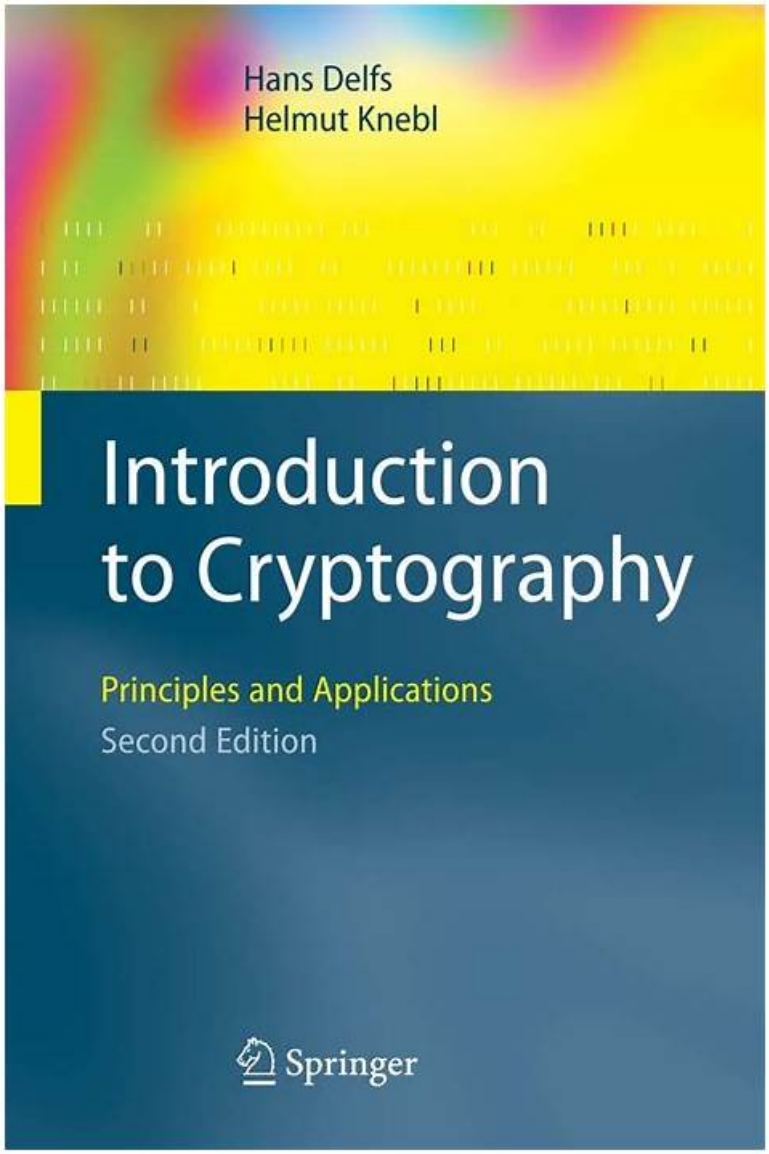

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WGU Introduction to Cryptography HNO1 Sample Questions (Q32-Q37):

NEW QUESTION # 32
(A security analyst is using 3DES for data encryption. Which 3DES key size is valid?)

- A. 112-bit
- B. 2,048-bit
- C. 56-bit
- D. 128-bit

Answer: A

Explanation:
3DES (Triple DES) applies the DES block cipher three times to increase effective security, and its commonly cited valid key sizes correspond to how many independent DES keys are used. Two-key
3DES uses two 56-bit DES keys (K1 and K2) in an EDE sequence (Encrypt with K1, Decrypt with K2, Encrypt with K1), yielding 112 bits of keying material (ignoring parity bits). Three-key 3DES uses three independent 56-bit keys for a total of 168 bits of keying material, but that option is not listed here.
A 56-bit key corresponds to single DES, not 3DES. 128-bit is associated with AES, not 3DES. 2,048-bit is typical for RSA keys, not symmetric ciphers. Therefore, among the choices provided, 112-bit is a valid 3DES key size. While 3DES is now deprecated for many uses due to its 64-bit block size and performance limitations, understanding its keying options remains important for legacy system assessment.

NEW QUESTION # 33
(Which authentication method allows a web service installed on a network operating system to prove its identity to a customer?)

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

Answer: B

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 # 34
(How often are transactions added to a blockchain?)

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

Answer: D

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 # 35
(What are the primary characteristics of Bitcoin proof of work?)

- A. Difficult to produce and difficult to verify
- B. Easy to produce and easy to verify
- C. Easy to produce and difficult to verify
- D. Difficult to produce and easy to verify

Answer: D

Explanation:
Bitcoin's proof of work (PoW) is designed so that finding a valid block is computationally difficult, but checking validity is computationally easy. Miners must repeatedly hash candidate block headers (double SHA-256) with different nonces until they find a hash value below a network-defined target.
This trial-and-error search requires significant work and energy because the probability of success per attempt is extremely low at current difficulty levels. However, verification is straightforward: any node can hash the block header once (or a small number of times) and confirm the resulting hash meets the target threshold and that the block contents follow protocol rules. This "hard to produce, easy to verify" property is essential: it makes it expensive for attackers to rewrite history or outpace honest miners, while allowing all participants-even low-power devices-to validate blocks efficiently.
Therefore, the primary characteristic of Bitcoin proof of work is that it is difficult to produce and easy to verify.

NEW QUESTION # 36
(How does adding salt to a password improve security?)

- A. Salt prevents users from reusing the same password.
- B. Salt creates a different hash if two people use the same password.
- C. Salt enforces the complexity rules for passwords.
- D. Salt ensures two people do not have the same password.

Answer: B

Explanation:
A salt is a unique, random value stored alongside a password hash and combined with the password during hashing. Its main security benefit is that it ensures identical passwords do not produce identical hashes across different accounts or systems. If two users choose the same password, their stored hashes will differ because their salts differ, which directly prevents attackers from spotting shared passwords by comparing hashes. Salts also defeat precomputation attacks such as rainbow tables, because an attacker

would need to regenerate tables for each possible salt value-a task that becomes infeasible when salts are large and unique per password. Salt does not enforce password complexity rules (that's a policy/validation function), does not guarantee users choose different passwords, and does not prevent password reuse across sites. The correct statement is that salt makes the resulting hash different even for the same password, improving resistance to offline cracking at scale and eliminating the "same hash = same password" shortcut attackers rely on.

NEW QUESTION # 37
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