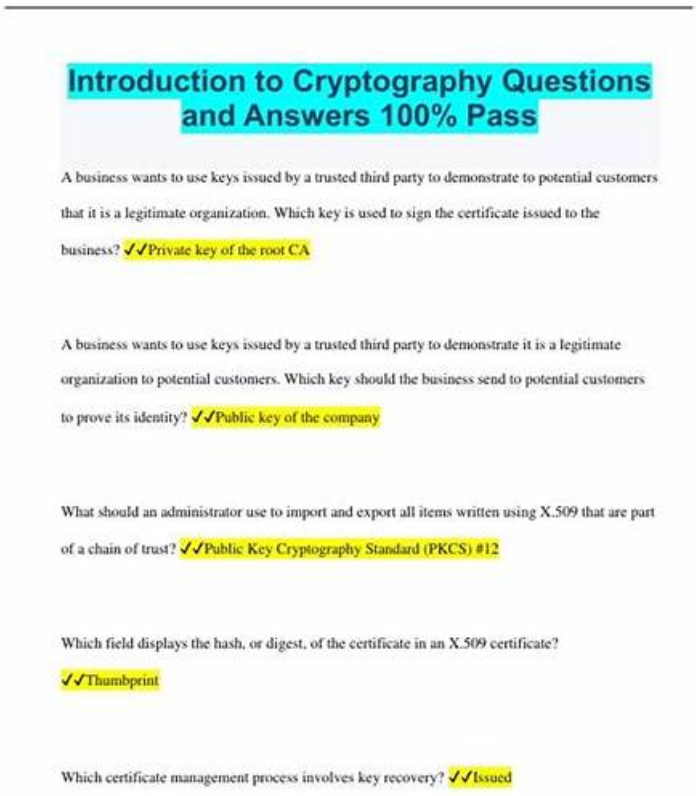
Introduction-to-Cryptography Exam Preview & Introduction-to-Cryptography Real Exam



Introduction to Cryptography Questions and Answers 100% Pass

A business wants to use keys issued by a trusted third party to demonstrate to potential customers that it is a legitimate organization. Which key is used to sign the certificate issued to the business? ✓✓Private key of the root CA

A business wants to use keys issued by a trusted third party to demonstrate it is a legitimate organization to potential customers. Which key should the business send to potential customers to prove its identity? ✓✓Public key of the company

What should an administrator use to import and export all items written using X.509 that are part of a chain of trust? ✓✓Public Key Cryptography Standard (PKCS) #12

Which field displays the hash, or digest, of the certificate in an X.509 certificate? ✓✓Thumbprint

Which certificate management process involves key recovery? ✓✓Issued

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Questions

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WGU Introduction to Cryptography HNO1 Sample Questions (Q45-Q50):

NEW QUESTION # 45
(What is the value of 23 mod 6?)

- A. 04
- B. 03
- C. 06
- D. 05

Answer: D

Explanation:
The expression 23 mod 6 asks for the remainder when 23 is divided by 6. Modular arithmetic is foundational in cryptography, especially in public-key systems (RSA, Diffie-Hellman, ECC) where operations occur in finite rings or fields. To compute 23 mod 6, identify the largest multiple of 6 that does not exceed 23. Multiples of 6 are 6, 12, 18, 24. Since 24 is greater than 23, the largest valid multiple is 18. Subtract: 23 # 18 = 5, so the remainder is 5. Therefore, 23 mod 6 = 5, which corresponds to option "05." Modular reduction keeps numbers within a fixed range (0 to modulus#1), enabling stable arithmetic under wraparound behavior. In cryptographic protocols, this wraparound property is essential for defining groups and ensuring operations remain bounded and consistent.

NEW QUESTION # 46
(Which type of network were VPN connections originally designed to tunnel through?)

- A. Protected
- B. Private
- C. Encrypted
- D. Public

Answer: D

Explanation:
A VPN (Virtual Private Network) is designed to create a secure, private communication channel over an otherwise untrusted or shared infrastructure. Historically and conceptually, VPNs were built to allow organizations and users to transmit sensitive traffic across the public Internet while maintaining confidentiality, integrity, and authenticity. The "virtual" aspect means the network behaves like a private link, but the underlying transport is typically a public network where attackers could potentially observe or tamper with traffic. VPN technologies such as IPsec and SSL/TLS-based VPNs encapsulate packets and apply encryption and authentication so that the payload and session metadata are protected even when traversing public routing domains. Options like "encrypted" and "protected" describe properties of the VPN tunnel itself rather than the underlying network it traverses; the VPN provides encryption/protection precisely because the medium is not inherently secure. "Private" would describe a dedicated internal network, which generally does not require a VPN to achieve basic confidentiality. Therefore, VPNs were originally designed to tunnel through public networks.

NEW QUESTION # 47
(Which certificate encoding process is binary-based?)

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

Answer: D

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 # 48
(Which encryption algorithm uses an 80-bit key and operates on 64-bit data blocks?)

- A. Skipjack
- B. Blowfish
- C. Camellia
- D. Twofish

Answer: A

Explanation:
Skipjack is a symmetric block cipher historically associated with the Clipper chip initiative. Its defining parameters match the question: it operates on 64-bit blocks and uses an 80-bit key. The other options do not fit those exact sizes. Twofish is a 128-bit block cipher with key sizes up to 256 bits. Blowfish is a
64-bit block cipher, but its key size is variable from 32 up to 448 bits and is not fixed at 80 bits as a defining property. Camellia is a 128-bit block cipher with key sizes of 128, 192, or 256 bits. Skipjack's smaller key size and legacy design make it unsuitable for modern security needs, but the question is purely about identifying the algorithm that matches an 80-bit key and 64-bit blocks. Therefore, the correct answer is Skipjack.

NEW QUESTION # 49
(What type of encryption uses different keys to encrypt and decrypt the message?)

- A. Symmetric
- B. Secure
- C. Private key
- D. Asymmetric

Answer: D

Explanation:
Asymmetric encryption (also called public key cryptography) uses a pair of mathematically related keys: a public key and a private key. One key is used to encrypt, and the other is used to decrypt, which is the defining "different keys" property asked in the question. In the common confidentiality use case, a sender encrypts a message using the recipient's public key, and only the recipient can decrypt it using their private key. This solves the key distribution problem inherent in symmetric encryption, where both parties must securely share the same secret key in advance. Asymmetric systems also enable digital signatures: the private key signs (creates a signature) and the public key verifies it, providing authenticity and integrity. Symmetric encryption, by contrast, uses the same shared key for both encryption and decryption (even though internal round keys may exist, it is still one shared secret).
"Private key" alone is not a full encryption type, and "secure" is a generic description rather than a cryptographic category. Therefore, the correct answer is D. Asymmetric.

NEW QUESTION # 50
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