CSS Module Wise Imp Questions by LMT

Module 1:

MODULE 1 - INTRODUCTION - NUMBER THEORY AND BASIC CRYPTOGRAPHY

- Q. Numerical Based on Ciphers 📥 [Auto Key, Play fair, Affine]
- Encrypt the given message using Autokey Cipher, Key=7 and the Message is: "The house is being sold tonight".
- Use the playfair cipher with the keyword: "HEALTH" to encipher the message "Life (10)
 is full of Surprises"
- Encrypt the plaintext message "SECURITY" using affine cipher with the key pair (3, 7).
 Decrypt to get back original plaintext.
- Q. Explain the Relationship Between Security Services and Mechanism in Details
- Q. What are traditional ciphers? Discuss any one substitution and transposition cipher with example. List their merits and demerits.

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Module 2:

MODULE 2 - SYMMETRIC AND ASYMMETRIC KEY CRYPTOGRAPHY AND KEY MANAGEMENT

- Q. Discuss DES with reference to following points [VV IMP]
- 1. Block size and key size
- 2. Need of expansion permutation
- 3. Role of s-boxes.
- 4. Weak Keys and Semi Weak Keys.
- 5. Possible attacks on DES
- Q. Numerical in RSA [VV IMP]
- Elaborate the steps of key generation using the RSA algorithm. In RSA system the public key (E, N) of user A is defined as (7,187). Calculate Φ(N) and private key D' What is the cipher text for M= 10
- Q. Explain man in the middle attack on Diffie Hellman. Explain how to overcome the same.or Numerical Based on Diffie Hellman
- Q. Discuss in detail block cipher modes of operation.
- Q. Explain Kerberos ? [V IMP]



Module 3:

MODULE 3 - CRYPTOGRAPHIC HASH FUNCTIONS

- Q. What are the properties of a hash function? Explain role of hash function in security [VIMP]
- Q. MD 5 & SHA-1 (Difference) (MUST DO)

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Module 4:

MODULE 4 - AUTHENTICATION PROTOCOLS & DIGITAL SIGNATURE SCHEMES

Q. Why are digital certificates and signatures required? What is the role of digital signature in digital certificates? Explain any one digital signature algorithm. [VIMP]

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Module 5:

MODULE 5 - NETWORK SECURITY AND APPLICATIONS

- Q. What is the Need for SSL? Explain Handshake Protocol in SSL.[VVIMP]
- Q. What is meant by DOS Attack? What are different ways to mount DOS attacks? [VIMP]
- Q. How is security achieved in Transport and Tunnel modes of IPSEC? Explain the role of AH and ESP
- Q. Explain Different Types of Firewall (firewall & IDS difference)

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Module 6:

MODULE 6 - SYSTEM SECURITY

- Q. Explain Buffer Overflow attack [V IMP]
- Q. List various Software Vulnerabilities. How vulnerabilities are exploited to launch an attack. [VIMP]
- Q. How does PGP achieve confidentiality and authentication in emails?

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