SECURITY AND CRYPTOGRAPHY CSE-473

Time: Three Hours]

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[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

- (a) What do you mean by differential and linear crypto analysis?
 - (b) Is IDEA algorithm asymmetric or symmetric ?
 Explain its working, key structure and decrpyion mechanism.
- 2. (a) Explain cipher block chaining.
 - (b) Describe, how knapsack problem is applied to public key cryptography.

Unit II

(a) Explain briefly the working of Needham-Schroeder symmetric encryption algorithm.

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- (b) What are public key and screte key signature?Explain their working.
- (a) How does AES encryption work? Draw suitable diagrams for different steps.
 - (b) Discuss methods and issues in key distribution and handling.7

Unie III

- 5. (a) Describe the working of antivirus code.
 - (b) Explain various password attacks. What considerations must be made to make passwords secur from attacks?
- (a) In what ways a database may be compromised?
 Describe methods to make tables and records of a database secure.
 - (b) Describe life-cycle of a virus and its various types.

Unit IV

- 7. (a) Discuss in detail different security attacks that may happen on a computer system.
 - (b) How to secure network components?
- (a) Explain the techniques to secure enterprise networks.
 - (b) What is a Firewall? What is access control list?Discuss with example.

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