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SECURITY AND CRYPTOGRAPHY CSE-473

Time: Three Hours]

[Maximum Marks: 75

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

Unit I

- What are the different modes of operations in DES ?
 Explain about triple DES algorithm with example. What is meant by Avalanche effect in DES algorithm ?
- (a) What is RSA Algorithm? Discuss the attacks on RSA algorithm.
 - (b) Distinguish between differential and linear cryptanalysis. 8+7=15

Unit II

 (a) Explain digital signature standard. Differentiate between Secret key and public key signatures.

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- (b) Briefly explain Diffle-Hellman key exchange algorithms.
 8+7=15
- (a) Elaborately explain Kerberos authentication mechanism with suitable diagram.
 - (b) Describe MD5 algorithm in detail. Compare its performance with SHA-1 algorithm. 8+7=15

Unit III

- 5. What are the principles of database security? How password technology and administration ensures database security?
 15
- 6. (a) Discuss the life-cycle of a virus. How can system be prevented from virus?
 - (b) What do you mean by Trojan horse and bombs? Discuss any two advanced antivirus techniuqes in detail. 8+7=15

Unit IV

- What do you understand by network security? How can you secure Local area network? Discuss its security plan and policy.
- 8. Write notes on the following:
 - (a) Network setting priorities
 - b) Securing network components.

8+7=15

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