

Roll No.

Total Pages : 02

BT-7/D-19

37007

SECURITY AND CRYPTOGRAPHY

CSE-473

Time : Three Hours]

[Maximum Marks : 75

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

Unit I

1. (a) Explain cryptanalysis in detail with a suitable example. 8
(b) Discuss DES algorithm and its benefits briefly. 7
2. Write short notes on the following :
(a) Knapsack algorithm with example. 8
(b) Differential crypto analysis. 7

Unit II

3. Explain Diffie-Hellman Key exchange algorithm with an example. Also discuss its advantage and disadvantages. 15
4. (a) Explain Message digest and the generation format of MDS. 8
(b) Write in short on Digital Signatures. 7

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Unit III

5. (a) Explain Trojan Horse and bombs with example. 7
(b) Discuss the life cycle of virus and its preventive measures. 8
6. What do you mean by Security Mechanism ? Discuss the role of security mechanism and principle of database system security in detail. 15

Unit IV

7. (a) Write short note on hardware security. 7
(b) What are security functions and how they are helpful ? 8
8. Write short notes on the following :
(a) Setting network priorities 7
(b) Security plans 8

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