

Roll No.

Total Pages : 2

BT-4/M-22

44226

CRYPTOGRAPHIC FUNDAMENTALS

Paper-PC-CS-CYS-212A

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all, selecting at least *one* question from each unit. Each question carry equal marks.

UNIT-I

1. Describe classical encryption techniques with suitable examples. (15)
2. (a) Explain Shannon's theory of confusion and diffusion. (8)
(b) Write a short note on Data Encryption Standard. (7)

UNIT-II

3. (a) Explain the principles of public key crypto systems. (7)
(b) Describe Diffie-Hellman key Exchange algorithm. (8)
4. (a) Explain MD5 message digest algorithm. (8)
(b) Write a short note on Digital Signatures. (7)

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UNIT-III

5. Describe Computer based Symmetric and Asymmetric Key Cryptographic Algorithms. (15)
6. Explain the following terms :
 - (a) Information Management Technologies.
 - (b) Multi-level relational data models. (15)

UNIT-IV

7. Define Intrusion detection. Explain security concepts of intrusion detection system. (15)
8. Explain the following terms in context to Intrusion Detection:
 - (a) Vulnerability Analysis.
 - (b) technical Issues. (15)

