

BTS(C) – VII– 09 – 061 – D

B. Tech Degree VII Semester Examination, November 2009

IT 705 (D) CRYPTOGRAPHY AND DATA SECURITY

(2002 Scheme)

Time: 3 Hours

Maximum Marks: 100

- I. a. Explain different aspects of security. (10)
b. Distinguish between transposition ciphers and substitution ciphers. (10)
OR
- II. a. Explain the working of Hagelin machine. (12)
b. Write a short note on unicity distance. (8)
- III. Explain DES algorithm in detail? Mention the characteristics of DES. (20)
OR
- IV. a. Explain IDEA. (10)
b. Explain the use of Linear Feedback Shift Registers in Cryptography. (10)
- V. Discuss in detail, RSA algorithm. (20)
OR
- VI. Explain various public key system based on elliptic curves. (20)
- VII. a. Explain different cryptographic protocols. (10)
b. Explain how message integrity is achieved with the aid of Hash function. (10)
OR
- VIII. a. Discuss in detail, message authentication with digital signatures. (10)
b. Explain Zero knowledge techniques. (10)
- IX. a. Explain general aspects of key management. (10)
b. Explain key distribution for asymmetrical systems. (10)
OR
- X. a. What does Network Security means? What are the ways to employ Network Security? (10)
b. Write a note on Fair Cryptosystems. (10)

