

B. Tech Degree VII Semester Examination, November 2008**IT 705 (D) CRYPTOGRAPHY AND DATA SECURITY**
(2002 Scheme)

Time : 3 Hours

Maximum Marks : 100

- I. (a) Explain different aspects of security. (10)
(b) Explain classical Encryption Systems. (10)
OR
- II. With the help of a diagram, explain the working of Hagelin Machine. (20)
- III. Explain Data Encryption Standard in detail. (20)
OR
- IV. (a) Explain IDEA. (10)
(b) Briefly explain finite state machines. (10)
- V. Explain in detail the RSA system. (20)
OR
- VI. Explain public key systems based on elliptic curves. (20)
- VII. Explain the role of Hash functions in cryptography. Discuss about *any two* Hash functions. (20)
OR
- VIII. (a) Explain different cryptographic protocols. (10)
(b) Briefly explain message authentication with digital signatures. (10)
- IX. (a) Explain the general aspects of key management. (10)
(b) What you mean by network security? Explain the methods to employ network security. (10)
OR
- X. Explain key distribution for symmetrical and asymmetrical systems. (20)

