



D 23217

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Name.....

Reg. No.....

**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, DECEMBER 2011**

**CS/IT 04 702—CRYPTOGRAPHY AND NETWORK SECURITY**

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

**Part A**

- I. (a) Write short notes on steganography.
- (b) What are the Security Services ?
- (c) Describe the Security of hash functions and MAC algorithms.
- (d) What is the authentication convention ?
- (e) Explain the Schuorr schemes.
- (f) What is Secret broadcasting ?
- (g) Explain about key management in IP security.
- (h) Write note on Sesame.

(8 × 5 = 40 marks)

**Part B**

II. (a) Write Short notes on :

(i) Blow fish.

(7 marks)

(ii) Key distribution.

(8 marks)

*Or*

(b) Explain the International data encryption algorithm.

(15 marks)

III. (a) Explain in detail about Secure hash algorithm.

(15 marks)

*Or*

(b) Explain about message authentication codes in detail.

(15 marks)

IV. (a) Describe Diffie-Hellman key exchange Protocol.

(15 marks)

*Or*

**Turn over**

(b) Discuss about :

(i) Multiple key public key Cryptography.

(7 marks)

(ii) DSA prime generation.

(8 marks)

V. (a) (i) Explain about the privacy enhanced mail.

(7 marks)

(ii) Describe Pretty good privacy.

(8 marks)

Or

(b) Explain in detail the issues of web security.

(15 marks)

[4 x 15 = 60 marks]