

B. Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Final Year)

COMPUTER SCIENCE

Paper - V : Cryptography and Network Security

Time : 3 Hours

Maximum Marks : 75

Answer question No. 1 compulsory

(15)

Answer ONE question from each unit

(4 x 15 = 60)

1) Write a short notes on :

- a) Define cryptography.
- b) Define fermat's theorem.
- c) Define virus.
- d) What is the need of Authentication Header.
- e) Define trusted system.

Unit - I

- 2) a) Explain steganography.**
b) Explain block cipher modes of operation.

OR

- a) Explain different transposition techniques.
- b) Explain strength of DES.

Unit – II

3) Explain the Secure Hash Algorithm with a neat block diagram.

OR

- a) Explain Authentication requirements and functions.
- b) Explain Euclid algorithm.

Unit – III

- 4) a) Explain Authentication Header.
b) Explain Applications of IP Security.

OR

- a) Explain X.509 authentication service.
b) Discuss virus counter measures.

Unit – IV

- 5) a) Explain secure electronic Transaction.
b) Give the Principle of Firewall Design.

OR

- a) Discuss Password Management
b) Explain web security considerations.

κβκβ