(DCS / DIT 415 B)

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