Total No. of Questions - 8] [Total No. of Printed Pages –3

BE-VII(CBS)/3(R)(OL)

25682

COMPUTER ENGINEERING COURSE NO. CSE – 701 B

(Network Security)

Time Allowed: 3 Hours *Maximum Marks: 100*

Note: Attempt five questions in all selecting at least two questions from each Section. Each question carries 20 marks.

Section – A

1. (a) Define Cyber Security. What is its importance in education sector?

   (b) State and explain the five basic principles of Network Security. Justify each with example. (10, 10)

2. (a) Distinguish between Substitution and transposition Cipher. Discuss any one algorithm based upon these two techniques.

   (b) Define Steganography. How it differs from Cryptography? Explain its working principle. (10, 10)

3. (a) Distinguish between Private Key and Public Key Cryptography. What are its advantages and disadvantages?

   (b) Define DES Algorithm. Explain its broad level steps with diagram. (10, 10)

4. (a) Define RSA Algorithm. What is the real crux of RSA?

   (b) Discuss in brief about Authentication Protocols (AP). Explain in detail about any one AP. (10, 10)

Section – B

5. (a) Define IP_Security. Explain its basic architecture.

   (b) Define E-Mail Security. Describe any one protocol for achieving E mail Security. (10, 10)

6. What is a Firewall? Discuss its basic characteristics. Explain its classification with diagram. Enlist their merits and demerits.

7. (a) What do you mean by Cyber Crime? Discuss its different types.

(b) Discuss in brief about Cyber Security Laws. Which IT – ACT is meant for to protect software piracy? (10, 10)

8. Write short notes on the following:

(a) Cookies

(b) WWW

(c) Honeypots

(d) Key Management. (4 x 5 = 20)

----------<>----------