CC-585

M. Tech. EXAMINATION, Dec. 2018

(Third Semester)

(B. Scheme) (Main & Re-appear)

(CSE)

CSE657B

CRYPTOGRAPHY AND NETWORK SECURITY

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-37/5) M-CC-585   **P.T.O.**

Unit I

1. Write short notes on the following with example :
   (a) Polyalphabetic cipher
   (b) Vigenere Cipher
   (c) Rail Fence Cipher.

2. Discuss AES and its strength.

Unit II

3. Explain Diffie Hellman key exchange algorithm with example. Also describe its weakness, if any.

4. Describe RSA and its usage.

Unit III

5. Describe Hash functions and their usage in security. Explain Secure Hash Algorithm.

6. Explain features of Digital Signature. Describe any *one* standard in detail.

Unit IV

7. Describe Virus and related threats.

8. Write short notes on the following :
   (a) MIME
   (b) Firewall
   (c) X.509.