10EC832 – Network Security
Assignment-I

Note: i) Write the assignment in a A4 size paper
        iii) Mention your USN, name and section on the top right corner of first page
        ii) Submit the assignment on or before 11.00 AM, Tuesday, 08/03/2016

1. Explain different types of security attacks with illustrations.

2. Write a Short note on Security Services and Security Mechanism.

3. With a neat block diagram, explain the model for network security.

4. Explain Symmetric Cipher with block diagram and requirements.

5. Explain the following
    a. Cryptanalysis
    b. Brute force attack
    c. Masquerading
    d. Denial of Service
    e. Unconditional Security
    f. Computational Security
    g. Gatekeeper function

6. Explain various types of Cryptanalytic Attacks.

7. Write a short note on cryptanalysis of Caesar Cipher, Monoalphabetic Substitution Cipher, Vigenère Cipher and One Time Pad.

8. Explain transposition ciphers with example.

9. For the given keyword and plaintext, generate ciphertext using Playfair Cipher and Vigenere Cipher. Also illustrate the recovery of plaintext from the ciphertext.

    Keyword: KEYWORD

    Plaintext: IT IS EASY TO ENCRYPT THIS PLAINTEXT