BT-8/D-22   **48364**

INFORMATION SECURITY
Paper–OE-IT-410A

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *five* questions in all. Selecting at least *one* question from each unit. All questions carry equal marks.

UNIT-I

1. Describe the types of Security Attacks.   (15)

2. (a) Explain Substitution techniques.   (10)

   (b) Write a short note on symmetric and symmetric key cryptography.   (5)

UNIT-II

3. Write short notes on the following :

   (a) Stream Ciphers.

   (b) Location and placement of encryption function. (15)

4. Describe the Principles of Public key crypto systems. (15)

UNIT-III

5. Describe message authentication algorithms.   (15)

6. Discuss the following terms :

   (a) Digital signatures.

   (b) Biometric authentication.   (15)

UNIT-IV

7. (a) Explain virus and related threats.
   (b) Write a short note on Web Security. (15)

8. Describe types of firewalls. (15)