(b) What do you mean by the scanning tools?   (5)

[This question paper contains 4 printed pages.]

Your Roll No...............

Sr. No. of Question Paper : 3051   **IC**

Unique Paper Code   : 32345401

Name of the Paper   : Information Security and Cyber Laws

Name of the Course   : **Computer Science : Generic Elective for Honours**

Semester   : IV

Duration : 3 Hours   Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

2. Question No. **1** is compulsory from **Section A**.

3. Attempt any **Four** questions from **Section B**.

Section A

1. (a) Define Plain text, Cipher Text, key, encryption and decryption.   (5)

P.T.O.

(b) What is the need for Information Security?   (3)

(c) What are threats and vulnerabilities?   (3)

(d) What are substitution ciphers? Give an example.   (3)

(e) What do you mean by security policy?   (3)

(f) What do you understand by Hackers? Give the classification of hackers.   (4)

(g) What are viruses? Give any two names of viruses.   (4)

(h) What are the categories of attacks in networks?   (4)

(i) Differentiate :   (6)

    (i) Trojans and Viruses

    (ii) Symmetric and Asymmetric encryption

Section B

2. (a) Encrypt and decrypt the message" Meet me tonight at square point" using the additive cipher/ Caesar cipher with key size 7.   (5)

(b) Encrypt the message" meet me after the college" using the columnar transposition technique.   (5)

3. (a) What do you mean by security goals?   (5)

(b) Explain the types of vulnerabilities.   (5)

4. (a) What do you mean by Intrusion Detection System? Give types of IDS.   (5)

(b) What is the process of TCP session hijacking?   (5)

5. (a) What do you mean by password crackers?   (5)

(b) Explain the concept of digital signatures.   (5)

6. (a) Discuss the different types of Firewall systems.   (5)

(b) What are computer criminals? What do you mean by cyber crime?   (5)

7. (a) What is the punishment under section 65, 66, 66A, 66B, 66F ITAA 2008?   (5)