

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2124

H

Unique Paper Code : 62347627

Name of the Paper : Information Security and Cyber
Laws

Name of the Course : **B.A. Programme**

Semester : VI

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. **Section A** is compulsory.
3. Parts of a question must be answered together.
4. Attempt **any five** questions from Section B.
5. **All questions in Section B** carry equal marks.

P.T.O.

Section A (Compulsory)

1. (a) Differentiate between authorization and authentication. (2)
- (b) Differentiate between Public Key and Private Key. (2)
- (c) Describe cyber forensics with suitable example. (4)
- (d) Explain digital signature with the help of an example. (3)
- (e) What are the important aspects that an effective security policy must contain? (4)
- (f) Differentiate between iris scanning and signature dynamics techniques. (4)
- (g) Explain the term malicious software. (2)
- (h) What are the limitations of firewall? (2)
- (i) Write a short note on Digilocker. (2)

Section B

2. Explain the following sections under IT Act 2008 with their penalties and punishments. (10)

(a) 67A

(b) 67B

(c) 66B

(d) 66C

(e) 66E

3. Encrypt the plain text: "Computer Application" using the following ciphers:

(a) Caesar cipher with key-3 (5)

(b) Transposition cipher method-

Key(8→7, 7→6, 6→5, 5→4, 4→3, 3→2, 2→1, 1→8) (5)

4. Write short notes on the following: (2X5)

(a) Denial-of-service attacks

(b) Eavesdropping attack

- (c) Trojan Horse
 - (d) Brute force attack
 - (e) Birthday attack
5. (a) Explain the concept of firewalls in computer system. Describe any three types of firewalls and their uses. (5)
- (b) Explain Intrusion Detection System. Describe its types with their working. (5)
6. (a) What is risk management? Explain three strategies for dealing with risk. (6)
- (b) Differentiate between White Hat and Black Hat hackers. (4)
7. (a) Differentiate between Mandatory Access Control and Role Based Access Control. (5)
- (b) What is Hijacking? Explain TCP Session Hijacking. (5)
8. (a) Differentiate between Symmetric and Asymmetric encryption with help of example. (5)
- (b) What is the need of a security policy? Explain different types of security policies. (5)