

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2211

II

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.

SECTION A

Attempt all questions from this section

1. (a) Define risk management. (2)

P.T.O.

- (b) Describe the role of steganography in message transmission. (2)
 - (c) What is the penalty for dishonestly receiving stolen computer resources or communication devices? (2)
 - (d) Give the significance of Digital Certificate in information security. (2)
 - (e) Differentiate between security and threat. (3)
 - (f) Describe any three components of Information Security. (3)
 - (g) Distinguish between direct attack and indirect attack on computer networks. (3)
 - (h) Explain Symmetric cryptographic technique with an example. (4)
2. Define Incidence Response Plan. List its benefits. (4)

SECTION B

3. (a) Discuss the need of security policy. Describe its types. (5)

- (b) Explain the importance of availability, accuracy, authenticity confidentiality and integrity in an Information System. (5)
3. (a) Differentiate between denial-of-service attack and a distributed denial-of service attack? (4)
- (b) Perform the encryption on text “ I WENT TO MOON” using Transposition cipher (Rail-Fence) with (6)
- (i) key = 2
- (ii) key = 4
4. (a) Explain the concept of public-key Cryptography with the help of a diagram. (5)
- (b) Describe any five digital India initiatives. (5)
5. (a) Differentiate between phishing and spear phishing attack. Mention various techniques to reduce the risk of this attack. (6)
- (b) Differentiate between Signature dynamics and Voice prints techniques. (4)
6. (a) Explain the process of creating digital signatures with the help of a diagram. (6)

- (b) Describe password attack and its types. (4)
7. (a) What are the differences between a skilled hacker and an unskilled hacker? (4)
- (b) What is Intrusion Detection System? Explain each type of IDS. How is it different from firewall? (6)
8. (a) Write short notes on following : (10)
- (i) External v/s Internal threats
 - (ii) Ping of death attack
 - (iii) Laws v/s Ethics
 - (iv) Access control
 - (v) Design issues in Biometric systems