

Library 25-5-22 (Evening)
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[This question paper contains 3 printed pages.]

Your Roll No.

Sr. No. of Question Paper : 2758

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 (Compulsory)

- Q1- (a) Explain any two critical characteristics of information. 2
- (b) Differentiate between substitution cipher and transposition cipher with example. 3
- (c) Name any two password cracking tools. 2
- (d) Give the section number that covers the following areas; 2
- (i) Punishment for cyber terrorism
- (ii) Punishment for identity theft

- (e) Differentiate between Law and Ethic 2
- (f) Full form of the following: 2
- (i) ACL
- (ii) DIP
- (g) Write a short note on Digilocker. 3
- (h) List four requirements for secure email. 4
- (i) Differentiate between logical bomb and droppers. 2
- (j) Define vulnerability. Explain different types of vulnerability. 3

Section B

- Q2- (a) Expand and explain the term IRP. 4
- (b) Encrypt the text "Cyber Forensics" using 6
- (i) Caesar Cipher with key as 3
- (ii) Rail Fence Cipher with key as 5
- Q3- (a) What is a firewall and what are the various categories of 5
- firewall?
- (b) Differentiate between Symmetric and Asymmetric key 5
- encryption.
- Q4- (a) Give examples of Cyber Crimes where: 4
- (i) Computers are used to commit crime
- (ii) Computers become target of crime
- (b) What is risk management and why is the identification of 6
- risks and vulnerability to assets so important in risk
- management?

- Q5- (a) What is an IDS. Explain how do signature-based IDS differ 5
- from heuristic IDS.
- (b) Explain Section 72 for breach of Confidentiality and Privacy. 5
- Q6- (a) Differentiate between 4
- (i) Virus and Trojan Horse
- (ii) Private key and public key
- (b) Explain Man-in-the-middle attack. 4
- (c) Justify the statement, "Successful Organization should have 2
- multiple layers of security".
- Q7- (a) Explain the terms: 4
- (i) Hacker
- (ii) Encryption
- (iii) Botnet
- (iv) Key
- (b) What is the need of a security policy? Explain different types 6
- of security policies.
- Q8- (a) What is access control? How do Discretionary access control 6
- differ from Mandatory and Role-based access control?
- (b) Hackers are motivated by various factors. Explain them in 4
- detail.
- Q9 Write a short notes on: 2X5=10
- (i) Cryptology
- (ii) Steganography
- (iii) White Hat Hacker
- (iv) Password Attack
- (v) Mail Bomb