[This question paper contains 4 printed pages.]

Your Roll No.....

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Sr. No. of Question Paper: 4953

Unique Paper Code : 62347627 (Old Course: CBCS)

Name of the Paper : Information Security and

Cyber Laws

Name of the Course : B.A. (Prog.) Computer

Applications

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. The paper has two Sections. Section A is compulsory.

 Attempt any five questions from Section B.
- 3. Parts of a question must be answered together.

SECTION A (Compulsory)

- 1. (a) What is the role of proxy server in information security? (2)
 - (b) Name three password cracking tools. (2)

(c) What are viruses? Name any three,	(3)
(d) Briefly describe DF1R.	(3)
(e) Explain Caesar cipher with the help of suita	
example.	(3)
(f) What is access control? Briefly describe different approaches.	its (4)
(g) List four guidelines of password selection.	(4)
(h) Define the terms - spoofing and phishing.	(4)
SECTION B	
. (a) Describe the five main components of informat security.	(3)
(b) Explain transposition cipher with the help suitable example.	of (5)
 (a) What are firewalls? Briefly describe four types firewalls. 	(6)
(b) What do you understand by Hackers? G classification of hackers.	ive (4)

(a) What are IDS and IPS? Differentiate between 4. (6) the two. (b) Briefly describe the security issues in an operating (4) system. (a) Describe Steganography. List four different types 5. (3) of Steganography techniques. (b) Explain the concept of digital signatures. How is it different from digital Certificate? (5)(c) What do you understand by scanning tools? (2)(a) What is risk analysis? List the steps involved in 6. risk analysis. (4) (b) What is the difference between DoS and DDoS? (3)(c) Briefly describe cyber forensics its (3)importance. (a) Differentiate between: (5) 7. (i) Active and Passive attacks

(ii) Virus and Trojan Horse

P.T.O.

(b) What is TCP session hijacking? (3)

(c) Name four malicious codes.

(2)

- 8. (a) What is a substitution cipher? Obtain the encrypted message for the plaintext UNIVERSITY using Caesar cipher with key 3. Also, decrypt the cipher text VHFXULWB that has been encrypted using a rail fence cipher with key 3. What is the primary advantage of Caesar cipher? Also give one disadvantage of Caesar cipher. (6)
 - (b) Give the full form of CIA-triad. For each of the following examples, identify which part of the CIA-triad is compromised and how:

 (4)
 - (i) Alice is working on her university application online but the website crashes and she is unable to submit her application on time.
 - (ii) Vijay, a class XII student, accesses the CBSE website to check his marks but he was also able to view all the personal details of the students of his school.
 - (iii) Alice received a bill of ₹80 and accidently she spilled ink on the bill and the bill shows ₹8.