4

(a) Describe security policy and its importance for an organization. Explain any three characteristics of a good security policy. (6)(b) Describe any four digital India initiatives by the government of India. (4) (a) Explain the Intrusion Detection System. Describe the various types of IDS. (6)(b) Explain the concept of digital signature and digital (4)certificate. (a) What do you mean by password crackers? (b) What are computer criminals? Describe cyber crime in detail. (5)Differentiate between: (10)(i) Virus and Trojan horse (ii) Law and ethics (iii) Fault and failure (iv) Hacker and cracker

(v) Computer crime and digital crime

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper: 6141

 $\mathbf{E}$ 

Unique Paper Code

: 32345402

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

W. New Delhi

## Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. All questions are compulsory from Section A.
- 3. Please attempt any four questions from Section B.
- 4. Part of a question must be answered together.

## Section-A

1. (a) Briefly describe the term authentication.

(2)

(5)

P.T.O.

(b)	What is the punishment for dishonestly receistolen computer resource or communication de under ITAA 2008?			(m) Briefly explain birthday attack and SQL injection attack. (4)	
(c)	Describe the need of information security.	(2)		Section-B	
	Briefly explain the term cyber forensic.	(2)	2.	(a) Explain various access control mechanisms in a computing system. (4)	
(e)	Write a short note on email security.	(2)		computing system. (4)	
	Explain three security goals of a computer syst	(3)		(b) Encrypt the message "COME TO COMPUTER LAB AFTER CLASS" using Caesar cipher and rail fence cipher with key = 3. (6)	
(g)	What are the role and responsibility	of			
	cryptanalyst?	(3)	3.	(a) Explain risk analysis. Describe the strategies to	
(h)	What is firewall? Explain what a firewall can	and		deal with the risk. (4)	
	cannot do.	(3)		(b) Briefly describe the following attacks with suitable examples:	
	Differentiate symmetric key cryptography			•	
	asymmetric key cryptography with suita	ble		(i) Denial of service attacks	
	examples.	(3)		(ii) Phishing	
	Describe various categories of attacks with suita			(iii) Malware attacks (6)	
	examples.	(3)	4	(-) F - 1 :	
	Explain any three common security threats for		4.	(a) Explain the CIA triad and its relevance to computer security. (5)	
	operating system.	(3)			
(I) 1	Describe the password selection criteria to select a strong password. (3)			(b) Explain the section 66F and section72 of ITAA	
				2008. What are the punishments and penalties for	
	passinora.	(3)		the same? (5)	