



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 113502

Roll No.

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B. Tech.

(SEM. V) (ODD SEM.) THEORY
EXAMINATION, 2014-15

INFORMATION SECURITY AND CYBER LAWS

Time : 2 Hours]

[Total Marks : 50

- Note :**
- (i) Attempt all the questions.
 - (ii) All questions carry equal marks.

- 1 Attempt any four of the following : **3×4=12**
- (a) Explain the need of Distributed Information Security.
 - (b) Define the terms Confidentiality and Data Integrity.
 - (c) How digital signatures are related to Public Key Cryptographic Systems?
 - (d) Discuss the security issues in mobile computing environment.
 - (e) What do you mean by Physical Security for Information Systems?
- 2 Attempt any four of the following : **3×4=12**
- (a) Explain E-cash. Discuss the working of credit cards.
 - (b) What is VO.? Why they are needed? Explain various typical approaches of VO.

- (c) Explain security threats to E-commerce.
- (d) What do you mean by Intrusion Detection? Discuss the Principles and Architecture of Intrusion Detection System (IDS).
- (e) Explain the concept of Intellectual property? Describe various means using which intellectual property may be protected to an extent. Also explain Digital Millennium Copyright Act (DMCA)

3 Attempt any two of the following : 6×2=12

- (a) What are firewalls? Why they are needed? Explain firewall topologies.
- (b) Describe Virtual Private Networks? Explain authentication mechanism used in virtual private networks?
- (c) What are electronic payment systems? Compare electronic payment system on internet with conventional payment mechanism.

4 Attempt any two of the following: 7×2=14

- (a) What is biometrics? How can a biometric be used for access control? Explain some biometric techniques.
- (b) Describe requirements, steps and goals of service management in service delivery process.
- (c) Write short notes on any Two:
 - i. Cyber crime Types and overview.
 - ii. IPR and Patent Law.
 - iii. Ethical and legal issues in software privacy.