

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

PAPER ID : 2170

Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION 2011-12

INFORMATION SECURITY AND CYBER LAWS*Time : 2 Hours**Total Marks : 50***Note :—** Attempt **all** questions.

1. Attempt any **two** parts of the following :— **(6½×2=13)**
 - (a) What is an information system ? Discuss. How does the use of Internet by organisations support their business processes and activities ?
 - (b) What are the challenges in establishment of secure networks ? Discuss.
 - (c) Explain the following terms :—
 - (i) Public key cryptography.
 - (ii) Integrity.
 - (iii) Passive Attacks.
2. Attempt any **two** parts of the following :— **(6½×2=13)**
 - (a) What are the requirements of payment systems in e-commerce ? Explain the working of credit card transactions in e-commerce.
 - (b) What is Electronic Data Interchange (EDI) ? How does EDI work ? Discuss the benefits of EDI.
 - (c) Define Biometric systems. Discuss design issues in biometric systems.

3. Attempt any **two** parts of the following :— **(6×2=12)**

- (a) What is a digital signature ? Discuss the requirements to be fulfilled by digital signature application.
- (b) Discuss various types of intrusions possible in a network systems. What are the approaches used for detection of the intrusions ?
- (c) What is a VPN ? Discuss the scenarios where VPN can be deployed.

4. Write short notes on any **two** :— **(6×2=12)**

- (a) Cyber Crimes.
- (b) Legal dimensions of the information security.
- (c) Software piracy.