

(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. V) 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 : (6×2=12)
- (a) Explain the following terms clearly :
- (i) Confidentiality
 - (ii) Data Integrity
 - (iii) Non repudiation
 - (iv) Access Control.
- (b) Discuss the security issues in mobile computing environment.
- (c) What are various types of threats to Information Systems ? Discuss.
2. Attempt any **two** parts of the following : (6×2=12)
- (a) What are biometrics ? How can a biometric be used for access control ? Discuss the criteria for selection of biometrics.

- (b) What do you understand by Electronic Cash ? How does a cash based transaction differ from credit card based transactions ?
- (c) What is Electronic Data Interchange (EDI) ? What are the benefits of EDI ? How can it be helpful in governance ?
3. Attempt any **two** parts of the following : **(6×2=12)**
- (a) What is a digital signature ? What are the requirements of a digital signature system ? List the security services provided by digital signature.
- (b) (i) Differentiate between Private key cryptosystem and public key cryptosystems.
- (ii) What do you understand by firewall ? Explain.
- (c) Describe the approaches used for Intrusion Detection in a system.
4. Write short notes on any **two** of the following : **(7×2=14)**
- (a) Dimensions of cyber crime
- (b) Ethical and legal issues in software piracy
- (c) Virtual Private Network (VPN)