Printed Pages—2   **EIT505**

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

PAPER ID : 2170 Roll No. ☐☐☐☐☐☐☐☐☐☐

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.

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(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)