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

PAPER ID : 2170	Roll No.										

B. Tech.

(SEM. V) ODD SEMESTER THEORY EXAMINATION 2010-11

INFORMATION SECURITY AND CYBER LAWS

Time : 2 Hours   *Total Marks : 50*

Note : Attempt **all** questions.

1. Attempt any **four** parts :   **(4×3=12)**

    (a) What are Information Systems ? Explain how distributed information systems help global organizations ?

    (b) What are Decision Support Systems ? Discuss major functional requirement of a Decision Support System.

    (c) What are security threats in Mobile Computing ? Explain how are they dealt ?

    (d) What do you mean by Information Security ? Distinguish between Information level threats and network level threats.

    (e) What do you mean by RFID ? How RFID can be used in Mobile Commerce and Information Asset Protection ?

    (f) Explain different roles involved in managing information as 'asset'. How does the role of custodian differ from the role of user ?

2. Attempt any **four** parts : (4×3=12)

(a) What do you mean by Electronic Commerce ? What are benefits of Electronic Commerce for business firms ? What precaution must be taken to ensure confidentiality of the document sent over the network ?

(b) What do you mean by Payment Instruments used in Electronic Commerce ? Explain the difference in Credit and Debit Cards.

(c) What do you mean by access control to an information resource ? Discuss differences in authentication and user identification.

(d) What do you mean by Biometric data ? Discuss the advantages of Biometrics over traditional authentication methods.

(e) What do you mean by Physical Security for information systems ? What physical security measures are generally used for typical information system resources ?

(f) What are legal challenges in deployment of Biometric in public domain applications ?

3. Attempt any **four** parts : (4×3=12)

(a) What are Electronic Payment Systems ? Compare electronic payment system on Internet with conventional payment mechanisms.

(b) List broad activities involved in settlement of a business transaction in E-Commerce. List issues related to safety of business transaction on Web .

(c) What are objective, requirement and threats in a Cryptographic System ? What do you mean by Non-repudiation in such systems ? Discuss the issue of Integrity and authentication of the documents.

(d) What is Digital Signature ? How Digital Signatures are related to Public Key Cryptographic Systems ?

(e) What do you mean by Virtual Private Networks ? Discuss authentication mechanism used in Virtual Private Networks.

4. Write short note on any **two** of the following : (2×7=14)

(a) Intellectual Property Rights

(b) Ethical and Legal Issues in Data and Software Piracy

(c) Types of Cyber Crimes.