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

PAPER ID : 2170   Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ]

B. Tech.
(SEMESTER-V) THEORY EXAMINATION, 2012-13
INFORMATION SECURITY AND CYBER LAWS

Time : 2 Hours]   *[Total Marks : 50*

Section – A

1.   Attempt **all** question parts :   5 × 2 = 10

   (a)   Define the terms "Confidentiality" and "Data Integrity".

   (b)   What do you mean by Non-repudiation in which systems ?

   (c)   How Digital Signatures are related to Public Key Cryptographic Systems ?

   (d)   What are security threats in Mobile Computing ?

   (e)   What do you mean by Physical Security for Information Systems ?

Section – B

2.   Attempt any **three** question parts :   5 × 3 = 15

   (a)   List Broad activities involved in settlement of a business transaction in E-Commerce ? List issues related to safety of business transaction on web.

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

   (c)   Discuss the security issues in mobile computing environment.

   (d)   What do you mean by Intrusion Detection ? Discuss in detail about Principles and Architecture of Intrusion Detection System (IDS).

   (e)   What do you mean by Intellectual property ? Describe various means using which intellectual property may be protected to an extent. Also explain Digital Millennium Copyright Act (DMCA).

Section – C

Attempt **all** questions :

3. Attempt any **one** parts : $(5 \times 1 = 5)$

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

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

4. Attempt any **one** parts : $(5 \times 1 = 5)$

   (a) Describe requirements, steps and goals of Service Management in service delivery process.

   (b) Describe briefly the key security threats in the e-commerce environment.

5. Attempt any **one** part : $(5 \times 1 = 5)$

   (a) What is Biometrics ? How can a Biometric be used for access control ? Discuss the criteria for selection of Biometrics.

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

6. Attempt any **one** parts : $(5 \times 1 = 5)$

   (a) What do you mean by Virtual Private Networks ? Discuss authentication mechanism used in virtual private Networks ?

   (b) List the Security Services provided by digital signature.

7. Write short notes on any **one** parts : $(5 \times 1 = 5)$

   (a) Legal Issues in Data Mining Security

   (b) Software Privacy Cyber Crime Types

   (c) IPR & Patent Law

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