B.Tech.

(SEM. V) ODD SEMESTER THEORY EXAMINATION 2013-14

INFORMATION SECURITY AND CYBER LAWS

Time : 2 Hours   *Total Marks : 50*

Note :– (1)   Attempt **all** questions.

(2)   All questions carry equal marks.

(3)   Be precise in your answers.

1.   Attempt any **two** parts :   **(2×6=12)**

(a)   What are the design issues of distributed information system ? Explain the architectures for information systems.

(b)   Define various types of attacks in detail. Differentiate information level threat and network level threat.

(c)   (i)   What are security issues in mobile computing environment ?

(ii)   Explain the meaning of the terms confidentiality, integrity and availability.

2.   Attempt any **two** parts :   **(2×6=12)**

(a)   (i)   What do you mean by biometric data ? Discuss the advantages of using biometric over traditional authentication method.

(ii) Explain the steps involved in process flow of any biometric systems.

(b) Discuss electronic payment systems in detail. Also give the difference between the credit card based system and digital cash based system.

(c) Discuss the concept of Virtual Organization with example.

3. Attempt any **two** parts : (2×7=14)

(a) (i) Differentiate between symmetric and asymmetric key cryptosystems in detail.

(ii) What are the various approaches to deploy a firewall ?

(b) What is an Intrusion detection system ? Explain approaches used for Intrusion Detection.

(c) What do you understand by Virtual Private Network ? (VPN) ? Discuss how a VPN is established.

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

(a) Dimensions of Cyber Crimes
(b) Copyright Laws
(c) Software Piracy.