

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

PAPER ID : 2170

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**B. Tech.**

(SEM. VI) THEORY EXAMINATION 2010-11  
**INFORMATION SECURITY AND CYBER LAWS**

*Time : 2 Hours*

*Total Marks : 50*

**Note :—** Attempt **all** questions, each question carries equal marks.

1. Attempt any **four** parts of the following :— (3×4=12)
- (a) What is Information System ? Describe the need of distributed information system.
  - (b) What is the difference between security and threats and explain the web security ?
  - (c) Explain how confidentiality can be achieved ? Also describe “Integrity”, “Availability” in information security.
  - (d) Explain Java applet security model. Can Java applet be harmful for the computers ?
  - (e) What are the various types of data resources and networks resources in information system ? Give example to illustrate your answer.
  - (f) What is the classification of threats and describe the role of web services ?

2. Attempt any **two** parts of the following :— (6×2=12)

- (a) What are the problems with traditional payment system as compared to electronics payment system ?
- (b) What are design issues in biometric system ? Explain benefits and criteria for selection of biometrics.
- (c) Write short notes on :—
  - (i) B2B e-commerce
  - (ii) C2C e-commerce
  - (iii) B2C e-commerce.

3. Attempt any **two** parts of the following :— (6×2=12)

- (a) What is cryptology ? Describe the difference between Symmetric-key cryptography and public key cryptography ?
- (b) What are the requirements of digital signature ? How authentication is maintained using digital signature ?
- (c) Explain the VPN architecture and how can we implement firewall with advantages of VPN ?

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

- (i) IPR
- (ii) Building Security into Software Life Cycle.
- (iii) Cyber Crimes.