

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

PAPER ID: 2170

Roll No.

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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 ?

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.