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

Paper ID :   **Roll No.** ☐☐☐☐☐☐☐☐☐☐☐

B.TECH.

Theory Examination (Semester-VI) 2015-16

INFORMATION SECURITY & CYBER LAWS

Time : 3 Hours   *Max. Marks : 100*

Section-A

1. **Attempt all parts. All parts carry equal marks. Write answer of each part in short.** $(2 \times 10 = 20)$

   (a) What are the threats to information security?

   (b) Define authentication service security. What are the two components of security in mobile computing?

   (c) If internet is to be used for EDI what is the mail standard that must be used?

   (d) List some security threats to E-Commerce.

   (e) Define the terms: Confidentiality, Integrity.

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(f)   What are the properties of digital signature?

(g)   Write the various issues in documents security.

(h)   What are the policies of network security?

(i)   How can you define failures on the basis of security metrics?

(j)   What legal issues are associated with data mining?

Section-B

2.   **Attempt any five questions from this section.**   [10×5=50]

(a)   State the importance of internet and web page. Discuss the salient features of Cyber laws in India.

(b)   Explain the various measure for protection of laptops through physical measures and logical access control measures.

(c)   What do you mean by biometric data? What are the criteria used while selecting a biometrics characteristics to design a biometrics system? Discuss the design issues in biometric systems.

(d)   What are firewalls? Why do organizations need firewalls. Explain the different types of firewall with implementation model and configuration.

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(e) What are the basic concepts of network security? Why is security perimeter an important concept? Explain with suitable examples. What considerations should be made in the design of perimeter security?

(f) What is an intrusion detection system? What are the characteristics of a good intrusion detection system? Briefly discuss the various categories of intrusion detection system.

(g) Discuss the various ethical issues in detail. Also explain the various ethical issues in data and software piracy.

(h) What is mean by Cybercrime? Discuss the different types of cybercrimes in detail.

Section-C

Note: Attempt any two questions from this section. (15×2=30)

3. What is physical security? What are the needs of physical security in an information system? What are disasters and controls for an information system? Explain the basic tenets of physical security.

4. Define Virtual Private Networks. Discuss about the Virtual Private Networks and its types. What are the usages of VPN? Describe the concept of tunneling in VPN.

5. What are IPR laws? Illustrate the differences among the Patent law and Copyright law with an example. Discuss about the building security into software life cycle.