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Sub Code: EIT 505

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**B. TECH.**  
**(SEM V) THEORY EXAMINATION 2017-18**  
**INFORMATION SECURITY AND CYBER LAWS**

*Time: 3 Hours**Total Marks: 100***Note: 1.** Attempt all Sections. If any missing data is required, then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x10 = 20**

- a. What do you mean by Data and Information? Can you differentiate between these two?
- b. What is the need for Information Security?
- c. Differentiate between Threats and Attacks.
- d. Explain the need for Trusted System.
- e. Briefly describe the properties of Firewall.
- f. Briefly describe a model for Network security with the help of a neat diagram.
- g. Explain Web security requirements.
- h. Explain why cyber stalking is an offence.
- i. Discuss about the infringement of Copyright.

**SECTION B****2. Attempt any three of the following: 10 x 3 = 30**

- a. Explain in detail Digital Signature Standard approach and its algorithm.
- b. What is the use of SSL protocol? Explain its
- c. Explain Symmetric Cipher Model with neat block diagram.
- d. Explain the procedure involved in RSA Public key encryption algorithm.
- e. Define Security service. List different categories of Security service and explain.

**SECTION C****3. Attempt any one part of the following: 10 x 1=10**

- (a) Explain design issues and challenges in a Biometric system.
- (b) Explain the limitations and use of WAP (Wireless Application Protocol).

**4. Attempt any one part of the following: 10 x 1 = 10**

- (a) Explain EDI architecture and its advantages in detail.
- (b) Explain the Design aspects of a secure E-Commerce system and its applications.

**5. Attempt any one part of the following: 10 x 1 = 10**

- (a) Discuss the Implementation and Applications of IPsec.
- (b) What is Digital signature? Explain how the public key algorithms are used for obtaining Digital Signature.

**6. Attempt any one part of the following: 10 x 1 = 10**

- (a) Briefly describe the components of SET system.
- (b) What are the design goals of Kerberos?

**7. Attempt any one part of the following: 10 x 1 = 10**

- (a) What do you understand from Intellectual Property Right? Is copyright Intellectual Property?
- (b) Explain the purpose and role of certifying authorities under the Information Technology Act.