

(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) EVEN THEORY EXAMINATION 2012-13**  
**INFORMATION SECURITY AND CYBER LAWS**

*Time : 2 Hours*

*Total Marks : 50*

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

**(2) All questions carry equal marks.**

**1. Attempt any two parts of the following :**

**(a) Explain the following terms clearly :**

- (i) Masquerading**
- (ii) Replay attack**
- (iii) Availability Service**
- (iv) Symmetric key**

**(b) Discuss various issues in context of mobile computing environment.**

**(c) What do you understand by Information Systems ? Explain various components of information system with examples.**

**2. Attempt any two parts of the following :**

**(a) What is biometric ? Discuss the criteria for selection of biometrics. Discuss the social and legal aspects in implementation of biometric systems.**

**(b) Compare and contrast the E-Cash based payment system with credit card based payment system.**

(c) What are the security threats to business transactions on Web ? Discuss.

3. Attempt any two parts of the following :

(a) What is public key cryptosystem ? How does it differ from private key cryptosystem ? Describe.

(b) Compare the digital signature with paper signature. What are the properties that a digital signature scheme must satisfy ? List the security services provided by digital signature.

(c) What is Firewall ? Discuss the general characteristics of firewalls. Also mention the limitations of Firewalls.

4. Write the short notes on any two of the following :

(a) Security metrics

(b) Legal aspects of Intellectual Property

(c) IT Act 2000.