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**1071**

**B.Tech. Examination, 2016**

**(Sixth Semester)**

**(C.S. Branch)**

**Paper - II**

**INFORMATION SECURITY AND CYBER  
LAWS**

*Time Allowed : Three Hours*

*Maximum Marks : 50*

**Note :** Attempt any five questions. All questions carry equal marks.

- Q. 1.** (a) What is an information system ? Explain the importance and basics of information system. 5
- (b) Explain the changing nature of information systems. 5
- Q. 2.** (a) Explain some security threats to E-commerce. 5
- (b) What are security threats in mobile computing ? Explain how are they dealt ? 5

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(2)

Q. 3. (a) What do you mean by information security ?

Distinguish between information level threats and network level threats. 5

(b) What do you mean by Biometric data ?

Discuss the advantages of Biometrics over traditional authentication methods. 5

Q. 4. (a) Why we use keys in cryptography ? And explain the concept of public and private key. 5

(b) With a suitable illustration, explain the working of digital signature. 5

Q. 5. (a) Explain the network security dimensions ? 5

(b) What do you mean by virtual private networks ? Discuss authentication mechanism used in virtual private networks. 5

Q. 6. (a) Why the need of information security and law are rising ? 5

(b) Explain the concept of building security into software / system development life cycle. 5

Q. 7. Explain the following : 10

(a) JPR Law

(b) Copyright law

(c) Patent law

(d) Ethical issues

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B. Tech. Examination, 2015

(Fifth Semester)

(I.T. Branch)

**INFORMATION SECURITY AND  
CYBER LAWS**

**Paper-V**

*Time Allowed : Three Hours*

*Maximum Marks : 100*

**Note :** Attempt any five questions. All questions carry equal marks.

- Q. 1. (a) What are the major role and importance of information system ? Explain with example. 18
- (b) Explain how confidentiality can be achieve. Explain the term Integrity, Availability in information security.
- Q. 2. (a) What kind of e-commerce architecture is required on the web to perform the e-commerce ? 6
- (b) What are the design issues in biometric systems. Explain benefits and criteria for selection of biometrics. 6

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- Q. 3. (a) What are the various types of cryptanalytic attacks? Explain. (2)
- (b) Explain the components of Firewall in detail. (4)
- Q. 4. (a) Differentiate between authentication and authorization in detail. (6)
- (b) What are the models used by network security? Explain perimeters for network protection. (3)
- Q. 5. (a) Explain in detail the advanced security features of VPN? (4)
- (b) What are the ethical issues in data and software privacy? (4)
- Q. 6. (a) What is the difference between statistical anomaly detection and rule based intrusion detection? (5)
- (b) What are typical phases of operation of a virus or worm and how does behaviour blocking software work? (2)
- Q. 7. Write short notes on the following :
- (a) Alert Protocol
  - (b) HMAC
  - (c) PGP algorithm
  - (d) SPD