

15/12/2023  
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Sr. No:007713

December- 2023

**B.Tech (EL)-Re-appear VII SEMESTER**  
**Cyber Law and Security (ELOE-116)**

Time: 3 Hours

Max. Marks:75

- Instructions:**
1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.
  2. Answer any four questions from Part -B in detail.
  3. Different sub-parts of a question are to be attempted adjacent to each other.

**PART -A**

- Q1 (a) Explain the need of security. (1.5)  
(b) Differentiate between Active and Passive attacks. (1.5)  
(c) Explain the concept of electronic payment system. (1.5)  
(d) Discuss Integrity and Confidentiality. (1.5)  
(e) Explain the benefits of Physical security. (1.5)  
(f) What are digital signatures? Explain. (1.5)  
(g) How public key cryptography differs from symmetric key cryptography? (1.5)  
(h) Discuss the benefits of firewall. (1.5)  
(i) Explain Information Systems. (1.5)  
(j) Explain the benefits of Security Metrics. (1.5)

**PART -B**

- Q2 (a) Explain various goals of Information Security with suitable examples. (10)  
(b) Explain the security challenges of mobile devices. (5)
- Q3 (a) What are the various security threats to E-commerce? (10)  
(b) Discuss the security and privacy concerns associated with Credit Card/Debit Card. (5)
- Q4 (a) Explain the policies of Network Security. What are the issues in document security? (10)  
(b) How does EDI enhance data accuracy and reduce errors in business transactions? (5)
- Q5 (a) Explain the need of Intrusion Detection System. (5)  
(b) Describe the key components of VPN architecture. Compare and contrast site-to-site VPNs and remote access VPNs. (10)
- Q6 (a) Illustrate the legal issues in data mining security. (5)  
(b) What are the legal and ethical considerations in Software Privacy related to consent and data retention? (10)
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- Q7 (a) Explain the term 'Intellectual Property Rights'. Discuss in detail various laws (10) like Patent Law and Copyright Law.
- (b) Elaborate the various perimeters of Network Protection. (5)

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PART - A

- Q1 (a) Explain the need of security (1.5)
- (b) Differentiate between Active and Passive attacks (1.5)
- (c) Explain the concept of electronic payment system (1.5)
- (d) Discuss Integrity and Confidentiality (1.5)
- (e) Explain the benefits of Physical security (1.5)
- (f) What are digital signatures? Explain (1.5)
- (g) How public key cryptography differs from symmetric key cryptography? (1.5)
- (h) Discuss the benefits of Firewall (1.5)
- (i) Explain Information Systems (1.5)
- (j) Explain the benefits of security Metrics (1.5)

PART - B

- Q2 (a) Explain various goals of Information security with suitable examples (10)
- (b) Explain the security challenges of mobile devices (5)
- Q3 (a) What are the various security threats to E-commerce? (10)
- (b) Discuss the security and privacy concerns associated with Credit Card/Debit Card (5)
- Q4 (a) Explain the policies of Network Security. What are the issues in document security? (10)
- (b) How does EBI enhance data security and reduce errors in business transactions? (5)
- Q5 (a) Explain the need of Intrusion Detection System (5)
- (b) Describe the key components of VPN architecture. Compare and contrast site-to-site VPNs and remote access VPNs (10)
- Q6 (a) Illustrate the legal issues in data mining security (5)
- (b) What are the legal and ethical considerations in Software Privacy related to consent and data retention? (10)