

Roll No.

Total Pages : 3

008607

May 2023

**B.Tech. (ECE)- VI SEMESTER
Cyber Laws and Security (OEL-603)**

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

1. (a) What is digital signature? (1.5)
- (b) What are the legal issues in Data Mining security? (1.5)
- (c) Write a short note on the Copyright Act. (1.5)
- (d) What is EDI? Discuss benefits of EDI. (1.5)
- (e) What do you understand by denial of services attack? (1.5)
- (f) Explain Electronic Payment System (EPS). (1.5)
- (g) What do you understand by distributed information system? Give its advantages and disadvantages. (1.5)

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- (h) What do you understand by a firewall? (1.5)
- (i) Differentiate between white-hat hacking and black-hat hacking. (1.5)
- (j) How tunneling takes place in VPN? (1.5)

PART-B

- 2. (a) What is intellectual property? Explain the different types of intellectual property and how they are protected by law. (10)
- (b) Discuss some of the common security threats faced by e-commerce websites and explain how they can be prevented. (5)
- 3. (a) What are the security implications for organizations when it comes to information systems? (5)
- (b) Discuss the need of intrusion monitoring and detection and the different techniques used for intrusion detection. (10)
- 4. Discuss the Virtual Private Network (VPNs) ? Explain the difference between Intranet and Extranet VPNs. What are security concerns in VPNs. (15)
- 5. (a) Explain the concept of public key cryptography and its advantages over symmetric key cryptography. (5)
- (b) Describe the history and importance of Information Systems. Discuss the basic components of an information system and their roles. (10)

- 6. (a) What are the benefits of using biometric systems for access control? What are some of the design issues that need to be considered when implementing biometric systems? (10)
 - (b) What are the reasons for existence of digital divide, and what is the impact of digital divide ? (5)
 - 7. What is cyberspace in cybersecurity? What are the different types of cyber crimes? Discuss the phases involved in planning cybercrime. Discuss the impact of cyberspace on specific rights and freedoms. (15)
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