7.	(a)	Discuss the legal implications and potential			
		risks associated	with the	Internet	of Things
		(IoT).	ioni Vi	iğ e izeb	7.5

(b) Analyze a case study involving a cybercrime and discuss the relevant provisions of the ITAct.7.5

Roll No.

Total Pages: 04

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May 2024

B.Tech. (ECE) (Sixth Semester)

Cyber Laws and Security (OEL-603)

Time: 3 Hours]

[Maximum Marks: 75

Note: It is compulsory to answer all the questions
(1.5 marks each) of Part A in short. Answer
any four questions from Part B in detail.

Different sub-parts of a question are to be
attempted adjacent to each other.

Part A

- (a) Distinguish between cyber law and traditional law.
 - (b) Describe the key features of a datagram header.

 1.5
 - (c) Classify different types of cybercrimes. 1.5
 - (d) Define message integrity and explain its significance in data transmission. 1.5
 - (e) Distinguish between public key and private key in asymmetric encryption. 1.5

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- (f) What are the principles of data privacy according to relevant regulations? 1.5
 (g) Explain the concept of "Electronic Record" and its legal validity under the IT Act. 1.5
 (h) What are the challenges associated with investigating cybercrimes? 1.5
 (i) Describe the legal challenges possessed by
- Artificial Intelligence. 1.5
- (j) State the key objectives of the Information Technology Act (IT Act). 1.5

. Part B

- 2. (a) Discuss the importance of cyber law in today's world.7.5
 - (b) Identify a real-world situation and discuss how cyber law principles might be applied.

 7.5
- 3. (a) Differentiate between message authentication codes (MAC) and digital signatures.7.5
 - (b) Describe the concept of a Hash function and its role in message integrity verification.

7.5

4. (a) A company wants to implement a secure login system for its online application.

Discuss, how message authentication techniques can be used to verify user identities and prevent unauthorized access.

7.5

(b) Briefly explain the concept of fragmentation and reassembly in datagram communication.

7.5

- 5. (a) Explain the concept of a VPN (Virtual Private Network) and how it enhances network security.

 7.5
 - (b) Demonstrate how to utilize patenting and copyright of a novelty in accordance with the IT Act.

 7.5
- 6. Imagine you are designing a secure network for an online banking application. Discuss the key security considerations you would prioritize during the design process.