O.P.Code: 23CS1010	R23	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech. III Year II Semester Regular Examinations April-2026

CYBER SECURITY AND DIGITAL FORENSICS

CSE (Internet of Things and Cyber security Including Block Chain Technology)

Time: 3 Hours **Max. Marks: 70**

PART-A

(Answer all the Questions **10 x 2 = 20** Marks)

1	a	What is the role of strong passwords in preventing cybercrime?	CO1	L2	2M
	b	What is the difference Quid Pro Quo and Water Holing?	CO1	L1	2M
	c	Name two Mail Bombs Attacks .	CO2	L1	2M
	d	What is meant by white collar criminal activity?	CO2	L2	2M
	e	Differentiate between static routing and dynamic routing.	CO3	L2	2M
	f	What is internetworking, and why is it necessary in computer networks?	CO3	L2	2M
	g	Define External Ballistics?	CO4	L1	2M
	h	State any two advantages of digital forensics.	CO4	L1	2M
	i	Illustrate the structure of high-level Internet e-mail system.	CO5	L2	2M
	j	Differentiate between HTTP and HTTPS.	CO5	L2	2M

PART-B

(Answer all Five Units **5 x 10 = 50** Marks)

UNIT-I

2	a	Describe the concept of the challenges and prevention of Cybercrime.	CO1	L2	5M
	b	Examine the key features that define cyber crime.	CO1	L3	5M
		OR			
3	a	Compare Individual and Government/Organization Cybercrime.	CO1	L2	5M
	b	Explain the categories of Cybercrime in detail.	CO1	L2	5M

UNIT-II

4		Analyze the key differences between Exploitation and Stalking.	CO2	L3	10M
		OR			
5	a	Explain the different strategies to prevent unauthorized access.	CO2	L2	5M
	b	Discuss the Cyber Security Laws in India.	CO2	L2	5M

UNIT-III

6	a	Demonstrate the working of various password attack techniques.	CO3	L3	5M
	b	Illustrate the process of IP tracking with a suitable example.	CO3	L3	5M
		OR			
7	a	Apply digital forensic methods to explain E-Mail Recovery	CO3	L3	6M
	b	Use a scenario to explain the application of Autopsy software.	CO3	L3	4M

UNIT-IV

8	a	Discuss various types of digital forensics with examples.	CO4	L2	5M
	b	Describe about Advantages of Digital forensics and Disadvantages of Digital Forensics.	CO4	L2	5M
		OR			
9		Explain the suitability of Face Recognition and Iris Recognition in real-world applications considering their advantages and drawbacks.	CO4	L2	10M

UNIT-V

10		Explain the objectives and scope of the Electronic Communications Privacy Act (ECPA) and discuss the role of the Stored Communications Act under it.	CO5	L2	10M
		OR			
11	a	Explain Digital Evidence Preservation Techniques.	CO5	L2	5M
	b	Explain Ethical Responsibilities of a Digital Forensic Investigator.	CO5	L2	5M

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