Question Paper Code	12501

B. E. / B. Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023
Fifth Semester
Computer Science and Engineering
20CSEL502 - CYBER FORENSICS
(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

PART-A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	What is the primary goal of computer forensics?	2,K1,CO1
2.	What are the steps involved in incident response methodology?	2,K1,CO1
3.	State one advantage of integrating various forensics tools in an investigation.	2,K1,CO2
4.	Name some commonly used software tool in computer forensics.	2,K1,CO2
5.	What is network forensics?	2,K1,CO3
6.	Why are email investigations important in digital forensics?	2,K1,CO3
7.	State the role of foot printing in the context of ethical hacking.	2,K1,CO4
8.	Define malware and provide two examples of common malware threats.	2,K1,CO4
9.	What is social engineering?	2,K1,CO5
10.	Define path traversal and its potential risk to web applications.	2,K1,CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Describe the role of technology in computer forensics investigations.	13,K2,CO1
		OR	
	b)	Explain the differences between an identity theft and identity fraud.	13,K2,CO1

12.	a)	Classify and discuss the tasks performed by various Computer Forensics Tools.	13,K2,CO2
		OR	
	b)	Compare and contrast between conducting forensic investigation on Windows and DOS systems.	13,K2,CO2

13.	a)	Describe the steps involved in conducting an email investigation, from initial analysis to the extraction of relevant evidence.	13,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12501**

b) Outline the steps involved in conducting a network forensics investigation. *13,K2,CO3*

14. a) Describe in detail about Ethical Hacking and its various functionalities. *13,K2,CO4*

OR

b) Explain about the scanning methodology in detail. *13,K2,CO4*

15. a) Discuss about Social Engineering and its functionalities. *13,K2,CO5*

OR

b) Summarize the impact of Denial of Service attacks on web applications. Explore preventive measures against DoS attacks. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain in detail about Ethical Hacking and its methods. *15,K2,CO6*

OR

b) Discuss about Man- in the Middle Attack with an example. *15,K2,CO6*