Code No.: CY733PE

[Time: 3 Hours]

R20

H.T.No.

8 R

[Max. Marks: 70]

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2024 CYBER FORENSICS

(CSC)

	ne: 3 Hours] [Max. Mar	KS: /U]	
Note	: This question paper contains two parts A and B.		
	Part A is compulsory which carries 20 marks. Answer all questions in Part A.		
	Part B consists of 5 Units. Answer any one full question from each unit. Each question		
	carries 10 marks and may have a, b, c as sub questions.		
	$\underline{PART-A} \tag{20}$	Marks)	
1. a) State one activity performed after detecting an incident.	[2M]	
b) Identify two major types of cyber crime.	[2M]	
С		[2M]	
	initial response.		
d) State one tool commonly used to collect volatile data from a Windows system.	[2M]	
e		[2M]	
f		[2M]	
g	[1]	[2M]	
h		[2M]	
i		[2M]	
j		[2M]	
		Marks)	
2.	Compare worms and viruses in terms of their propagation methods, payloads, and	[10M]	
	impacts. Explain how these malware types can be mitigated effectively.		
	OR		
3.	Describe the concept of incident response and discuss the primary goals of an effective	[10M]	
	incident response methodology.		
4	Discuss the legal and technical requirements that make a forestic duplicate admissible as	LIONI	
4.	Discuss the legal and technical requirements that make a forensic duplicate admissible as evidence in court.	[10M]	
	OR		
5.	Explain the significance of initial response in forensic investigations and discuss how	[10M]	
٥.	forensic duplication ensures the integrity of evidence throughout the investigation.	[101/1]	
	to close duplication custics the integrity of evidence unoughout the investigation.		
6.	Describe how forensic data is validated to ensure authenticity and analyze the impact of	[10M]	
0.	improper validation on the outcome of an investigation.	[101.1]	
	OR		
7.	Identify key tools used for network forensic analysis and discuss how these tools help	[10M]	
,,	capture and interpret network traffic effectively.	[101.1]	
	capture and interpret network during effectively.		
8.	Discuss the role of e-mail servers in forensic investigations and how they aid in gathering	[10M]	
004(2)	evidence.		
	OR		
9.	Explain the challenges involved in acquiring data from encrypted mobile devices.	[10M]	
	되는 생님, 그렇게 된 이번에게 보면수 있는 것이 되어 하는 것이 없는 것이다.		
10.	Explain the various types of file systems used in Windows environments and analyze their	[10M]	
	strengths and weaknesses		
	OR		
11.	Discuss the concept of virtual machines and evaluate their benefits in testing and	[10M]	
	developing software in a controlled environment.		