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[2M]

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-II-Semester End Examinations (Advanced Supply) – June - 2025 CYBER FORENSICS

(IT)

[Time	[ax. Marks: 70]						
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.						
	PART-A	(20 Marks)					
1. a)	What is digital forensics?	[2M]					
b)	How computers can be used as evidence in cyber crime investigations?	[2M]					
c)	What is the difference between a forensic duplicate and a qualified forensic duplicate	e? [2M]					
d)	Name two essential requirements for forensic duplication tools.	[2M]					
e)	How does network forensics differ from traditional digital forensics?	[2M]					
f)	What is steganography, and how is it used to hide data?	[2M]					
g)	Name two commonly used computer forensic software tools.	[2M]					

	<u>PART-B</u>		(50 Mar	·ks)
2.	Explain why worms are often considered more dangerous than viruses.		[10)M]
	OR			

What is the difference between an e-mail client and an e-mail server?

Name two common file systems used in Windows.

What is the Windows Registry?

- 3. Explain how cybercriminals misuse computers to conduct activities such as identity [10M] theft, financial fraud and cyberterrorism?
- 4. Discuss the features that ensure data integrity and admissibility of forensic duplicates. [10M]
- 5. Describe the step-by-step process of creating a forensic duplicate of a hard drive [10M]
- 6. What is remote forensic acquisition and why is it necessary in digital forensics [10M] process?

OR

- 7. Define network forensics and explain its significance in cybercrime investigations. [10M]
- 8. What are the key factors considered when evaluating the need for computer forensic [10M] tools?

OR

- 9. Explain the roles of an e-mail client and an e-mail server in digital forensic process. [10M]
- 10. Explain MS-DOS startup tasks while working with windows system. [10M]

OR

11. Explain how forensic investigators analyze virtual disk images and snapshots. [10M]
