

Code No: **R20A6215****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****IV B.Tech I Semester Supplementary Examinations, April 2025****Cyber Forensics****(CSE-CS, CSE-AIML, CSE-DS & CSE-IOT)**

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

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each **SECTION** and each Question carries 14 marks.

<u>SECTION-I</u>			BCLL	CO(s)	Marks
1	A	Compare and contrast cybercrime and traditional crime.	L2	CO-I	[7M]
	B	Explain how a holistic approach to cyber forensics enhances the effectiveness of investigations and identify the key elements associated with this approach.	L1	CO-I	[7M]
OR					
2	A	Examine the core components of cyber-criminalistics, explaining how they aid cybercrime investigations.	L3	CO-I	[7M]
	B	Describe how criminalistics contributes to the investigation of computer crime, and identify the techniques used to gather the digital evidence.	L4	CO-I	[7M]
<u>SECTION-II</u>					
3	A	Discuss the types of court orders typically required to access electronic evidence in a cybercrime investigation.	L1	CO-II	[7M]
	B	A detective is preparing to obtain a search warrant to access a suspect's electronic devices. What specific court documents should the detective understand and prepare, and how might these documents affect the validity of the search?	L5	CO-II	[7M]
OR					
4	A	Discuss the methods used to retrieve communications from digital devices during a cybercrime investigation and explain how these methods ensure the integrity of the evidence.	L2	CO-II	[7M]
	B	Discuss the significance of court documents in criminal investigations	L1	CO-II	[7M]
<u>SECTION-III</u>					
5	A	Analyze the factors influencing law enforcement and assess their impact on the effectiveness of police operations and community safety.	L4	CO-III	[7M]
	B	Explain probable cause is applied in the context of law enforcement investigations and legal proceedings.	L3	CO-III	[7M]
OR					
6	A	Evaluate the criteria for establishing probable cause for a search warrant and how they ensure the protection of individual rights during investigations.	L6	CO-III	[7M]

	<i>B</i>	Enlist the key features and functionalities of shared folder management in various operating systems	L2	CO-III	[7M]
		<u>SECTION-IV</u>			
7	<i>A</i>	Explain the steps involved in preparing a case and initiating an investigation in computer forensics.	L3	CO-IV	[7M]
	<i>B</i>	Analyze the effectiveness of various open-source security tools used in network forensic analysis and their impact on investigations.	L4	CO-IV	[7M]
		OR			
8	<i>A</i>	Evaluate the criteria for critiquing a computer forensic case and analyze how these evaluations enhance future investigations.	L5	CO-IV	[7M]
	<i>B</i>	Analyze the legal and ethical considerations involved in the preservation of network data during forensic investigations.	L4	CO-IV	[7M]
		<u>SECTION-V</u>			
9	<i>A</i>	Demonstrate five mobile forensic tools used for investigating mobile phones, including their key features and applications.	L2	CO-V	[7M]
	<i>B</i>	Analyze recent trends in mobile forensic techniques that influence the extraction and analysis of data from mobile devices.	L3	CO-V	[7M]
		OR			
10	<i>A</i>	Explain about IT Act 2000	L2	CO-V	[7M]
	<i>B</i>	Discuss the methods to search and seizure electronic evidence.	L1	CO-V	[7M]
