Code No: **R20A6202**
MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Supplementary Examinations, April 2025
Cyber Security
(CSE, CSE-AIML, CSE-DS, CSE-IOT, B.Tech-AIDS & B.Tech-AIML)

Roll No										

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.

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				BCLL	CO(s)	Marks
			SECTION-I			
1	A		Explain the CIATriad and its significance in cybersecurity.	L2	CO-I	[7M]
	B		Define vulnerability, threat, and harmful acts in the context of cybersecurity with example for each.	L2	CO-I	[7M]
			OR			
2	A		Describe various methods of defense used in cybersecurity with examples.	L2	CO-I	[7M]
	B		Explain the layers of security in a computer system and how each layer contributes to overall security.	L1	CO-I	[7M]
			SECTION-II			
3	A		Explain the structure and key components of the Indian National Cyber Security Policy.	L1	CO-II	[7M]
	B		Explain the role of cybersecurity regulations in preventing cybercrime.	L2	CO-II	[7M]
			OR			
4	A		Define cyberspace and explain its key components with modern technology.	L2	CO-II	[7M]
	B		Examine a real-life cybercrime case and discuss the application of cyber forensic techniques used to solve it.	L3	CO-II	[7M]
			SECTION-III			
5	A		What are the primary security challenges posed by mobile devices and explain briefly?	L2	CO-III	[7M]
	B		Illustrate a scenario where registry settings of mobile devices were exploited, and suggest preventive actions.	L2	CO-III	[7M]
			OR			
6	A		What are the key trends in mobile device usage in organizations, and how do these trends influence security measures?	L2	CO-III	[7M]
	B		List the types of attacks possible on mobile and wireless devices with examples.	L3	CO-III	[7M]
			SECTION-IV			
7	A		Define intellectual property rights (IPR) and their relevance and issues related to cyberspace.	L1	CO-IV	[7M]
	B		Explain the implications of web threats on organizational	L2	CO-IV	[7M]

privacy with example.

OR

| 8 | *A* | Examine the security challenges associated with social computing and how they impact organizations. | **L2** | **CO-IV** | **[7M]** |
| | *B* | Differentiate between a hacker's skills and mindset, and how they pose a threat to organizational security. | **L2** | **CO-IV** | **[7M]** |

SECTION-V

| 9 | *A* | Define data privacy and list various types of data privacy attacks. | **L1** | **CO-V** | **[7M]** |
| | *B* | Explain the concept of data linking and profiling with examples from medical or financial domains. | **L2** | **CO-V** | **[7M]** |

OR

| 10 | *A* | Analyze the Maharashtra Government Website hacking incident and describe the privacy issues involved. | **L3** | **CO-V** | **[7M]** |
| | *B* | Explain the different types of data privacy attacks and their implications on personal data security. | **L2** | **CO-V** | **[7M]** |