Code No: R20A0452

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, June 2025 Internet of Things & Its Applications

(ME, CSE, IT, CSE-CS, CSE-AIML, CSE-DS, 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.

		SECTION-I	BCLL	CO(s)	Marks
1	\boldsymbol{A}	Discuss on the main challenges of Internet of Things	L3	CO-I	[7M]
	В	List out the interfaces used in IoT and also its Features OR	L2	CO-I	[7M]
2	\boldsymbol{A}	Describe the characteristics of IoT and its applications	L2	CO-I	[7M]
	В	Explain on Smart Objects and Connecting Smart Objects of IoT.	L3	CO-I	[7M]
		SECTION-II			
3	\boldsymbol{A}	Discuss the uses of IEEE 802.15.4, 802.11, its topology and Security aspects in IOT	L3	CO-II	[7M]
	В	Explain about Lora WAN standard, its MAC layer and security	L2	CO-II	[7M]
		OR			
4	\boldsymbol{A}	Explain any two IOT protocols in detail	L2	CO-II	[7 M]
	В	Discuss on CoAP and MQTT framework and message format SECTION-III	L2	CO-II	[7M]
5	\boldsymbol{A}	Explain the microcontroller and chips involved in embedded devices	L3	CO-III	[7M]
	В	Explain the arduino board details and the steps for installation OR	L2	CO-III	[7M]
6	\boldsymbol{A}	Describe various features of a Raspberry Pi device.	L2	CO-III	[7M]
	В	Discuss in detail the use of embedded computing in the design of IoT Sysems.	L3	CO-III	[7M]
		SECTION-IV			
7	\boldsymbol{A}	Discuss in detail about cloud platform for IoT applications.	L2	CO-IV	[7 M]
	В	Compare the Data in Motion versus Data at Rest for IoT OR	L3	CO-IV	[7M]
8	A	Discuss in detail the significance of data analytics in IOT with necessary illustrations	L3	CO-IV	[7M]
	В	Compare and contrast on Structured Versus Unstructured Data analytics	L3	CO-IV	[7M]
9	\boldsymbol{A}	SECTION-V Discuss on any two case studies of IoT on Industrial applications	L2	CO-V	[7M]

	В	Explain in detail on IoT based Home appliances	L2	CO-V	[7M]
10	\boldsymbol{A}	Discuss on case study related IoT based electronic equipment's	L3	CO-V	[7M]
	В	Write short notes on case study related to infrastructures and buildings	L3	CO-V	[7M]
