Code No.: R22EC57104PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

I-M.TECH-I-Semester End Examinations (Supply) - September- 2023 IOT AND ITS APPLICATIONS (PE-II) (VLSISD)

[Time: 3 Hours]

[Max. Marks: 60]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 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	(10 Marks)
1. a) b) c) d) e) f) g) h) i)	Define IOT? Write disadvantages of IoT? What is M2M? Define sensor? Name three main components of IoT? What are functional groups in IoT? What are actuators? What is brownfield and greenfield in IoT? What are the challenges of IOT security? What are the three types of IoT security?	[1M] [1M] [1M] [1M] [1M] [1M] [1M] [1M]
2.	Draw and explain IoT architecture? OR	(50 Marks) [10M]
3.	Explain the various emerging IoT applications.	[10M]
4.	Explain the levels of IOT.	[10M]
5.	OR Describe how a solution is designed for a particular problem by making use ap architecture in M2M/IoT and explain the use of partitioning the architectural and solution work into two domains.	
6.	Explain IoT deployment and operational view of the IoT reference architecture.	[10M]
7.	OR What is the functional view of IoT reference architecture?	[10M]
8.	How IoT is used in oil and gas industry?	[10M]
9.	OR What is smart manufacturing concept and its application?	[10M]
10.	Explain security architecture in detail with diagram.	[10M]
11.	OR What are the 5 types of security attacks that can be cause in IoT?	[10M]