Code No.: EC57104PE22

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

I-M.TECH-I-Semester End Examinations (Regular) - March- 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

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.

	$\underline{PART-A} \tag{10}$	Marks)
1. a)	Define IoT.	[1M]
b)	Write about the importance of Link layer.	[1M]
c)	List the key features of M2M.	[1M]
d)	What is Software Defined Networking?	[1M]
e)	What is Physical Entity?	[1M]
f)	Write the four stages of IoT architecture.	[1M]
g)	What is the importance of IoT in Air Pollution Monitoring?	[1M]
h)	How IoT is used in oil and gas industry.	[1M]
i)	What is IoT Security.	[1M]
j)	What is meant by IoT privacy and governance?	[1M]
PART-B (50 Marks)		
2.	Discuss in detail about Request-response, Publish-subscribe and Push-pul	
2.	communication models with diagrams.	
	OR	
3.	Discuss in detail about IoT strategic research and innovation directions.	[10M]
	Explain about an IoT architecture and its main design principles.	[10M]
4.	OR	[101.1]
5.	How do data collection and analysis approaches differ in M2M and IoT. Elaborate or	n [10M]
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6.	Explain about the various steps involved in IoT system design methodology.	[10M]
0.	OR	
7.	Explain about IoT reference model and IoT and IoT reference architecture.	[10M]
/.	Explain double to 1 reserves	
8.	Draw the process diagram, domain model and information model for the home	e [10M]
	intrusion detection system and explain it.	
	OR	
9.	Explain Four Aspects in your Business to Master IoT in detail.	[10M]
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10.	Explain in detail about the key challenges for Governance, Security and Privacy in Io	Γ [10M]
	applications.	
	OR	64.03.53
11.	Discuss about the Three Main Criteria of an IoT Governance Model.	[10M]
