

20ECS/ESP/EVE/ELD/EIE333

Third Semester M. Tech. Degree Examination, Feb./Mar. 2022

**Internet of Things** Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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		Module-1							
			(09 Marks)						
1	a.	What is IOT technology? Explain how digitization will help IOT.	(08 Marks)						
	b.	What is the difference between IOT and digital transformation?	(04 Marks) (08 Marks)						
	c. Discuss the challenges in the world of IOT.								
		OR	(10 Marks)						
2	a.	Discuss drivers behind new architectures.	(10 Marks)						
	b.	Discuss the M2M IOT standard architecture. (10 Marks)							
		Module-2	(10 Marks)						
3	a.	What are the core IOT functional stack? Explain in brief three layers of IOT stack	(10 Marks)						
	b.	Explain how IOT effects network management and monitoring.	(10 Marks)						
		OR							
			(10 Marks)						
4	a. Explain about for data management and compare of								
	b. What is network analytics? How does network analytics work and collect data? (10 Marks)								
		Module-3							
5	IOT device? Evalor game of IOT in wireless technology								
3	a. What is role of sensor in on 101 device? Explain scope of 101 in wheless technology.								
	b.	(10 Mari							
	o. Explain die communication protection protection								
		OR							
6	a.	What are the features of IEEE802.15.4 and explain its architecture.	(10 Marks)						
b. Write a brief note on: i) LTE Cat 0 ii) LTE – M. (10 M.									
	Module-4								
7	7 a. Discuss the need for optimization in on IOT. Explain constrained node, constrai								
networks, IP versions.									
	b. Explain SCADA system and application layer protocols for IOT. (10 Ms								
	OR								
8	a.	Explain structured and unstructured data with examples.	(10 Marks) (10 Marks)						
b. Explain about IOT data analytics overview and challenges.									

8	a.	Explain structured and unstructured data with examples.	(10 Marks)
			(40 B# 1 )
	b.	Explain about IOT data analytics overview and challenges.	(10 Marks)

## Module-5

9	a.	Explain Grid block reference model architecture.	PARI	(10 Marks)
		Explain architecture of a smart city.	CMRIT LIBRAHY BANGALORE - 560 037	(10 Marks)
	0.	Z.i.p.i.a.i	CMISSIORE - SO	
		OR	BANGA	

## OR

a. Explain smart city security architecture system. (10 Marks) b. Explain smart street lighting system using IOT. (10 Marks)