Code No: **20CO4T03**

II B. TECH II SEMESTER REGULAR EXAMINATIONS, JULY - 2022 INTRODUCTION TO IoT (CSE - INTERNET OF THINGS)

Time: 3 hours Max. Marks: 70

		Note: Answer ONE question from each unit (5 × 14 = 70 Marks)	
UNIT-I			
1.	٥)		[/7][/[]
1.	a) b)	Elaborate on the significance of Physical design of IoT. Summarize the Challenges and issues of IoT.	[7M] [7M]
	D)	(OR)	[/ 1/1]
2.	٥)	Explain the IoT Architecture with neat sketch.	[7M]
۷٠	a) b)	Write a note on the security challenges in IoT.	[7M]
	υj	UNIT-II	[/ 1/1]
3.	a)	Explain HTTP and XMPP protocols in IoT.	[7M]
	b)	Discuss the importance of Wi-Fi and GSM technology in IoT.	[7M]
		(OR)	
4.	a)	Explain the fundamental components of SCADA with neat	[6M]
		sketches.	
	b)	Recall the role of IPv6 and 6LoWPAN in IoT.	[8M]
		UNIT-III	
5.	a)	Discuss briefly about wireless sensor Networks.	[7M]
	b)	Explain the role of M2M as one of the four pillars of IoT.	[7M]
(OR)			
6.	a)	What is Big Data Analytics and Why is it important?	[7M]
	b)	What are the uses of Cloud Computing and How it works in	[7M]
		IoT?	
UNIT-IV			
7.	a)	Explain the features of Arduino with a neat diagram.	[7M]
	b)	Explain the working of Ultrasonic and PIR Sensors.	[7M]
		(OR)	
8.	a)	Discuss the protocols supported by Contiki OS.	[7M]
	b)	How communication is established with mobile devices using	[7M]
		Wi-Fi?	

UNIT-V

- 9. a) Explain the design of e-healthcare platform using open-source [7M] hardware and software.
 - b) With a neat sketch, explain smart home development using IoT. [7M] (OR)
- 10. a) Explain Data analytics frame work for IoT. [7M]
 - b) Discuss the Smart Agriculture application using IoT. [7M]

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