Q.P. Code: 19EC0450

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations December-2021 INTRODUCTION TO IoT

(Open Elective-III)					
T	Time: 3 hours Max. M		Aarks: 60		
(Answer all Five Units $5 \times 12 = 60$ Marks)					
UNIT-I					
1	a	Explain the role of things in IoT.	L2	6M	
	b	Mention the applications of IoT.	L1	6M	
		OR		01.1	
2	a	What are the protocols associated with network/internet layer of IoT? Explain them in detail.	L1	6M	
	b	Explain the request-response communication model of IoT with neat diagrams.	L2	6M	
		UNIT-II			
3	a	Explain the implementation of IoT technology in following areas: (i) Smart Parking (ii)Smart Lightening	L2	6M	
	b	Explain how the IoT technology is impacting the healthcare sector and changing our everyday lifestyle with the Health & Fitness monitoring example. OR	L3	6M	
4	a	Explain how IoT technology can used in the following application areas:	L2	6M	
		(i) Structural health monitoring (ii) Surveillance			
	b	Explain how IoT technology can used in the following application areas:	L2	6M	
		(i) Weather monitoring (ii) Noise pollution monitoring. UNIT-III			
5	a	Explain the differences between Machines in M2M and Things in IOT?	L2	6M	
	b	Sketch the structure of M2M Gate way Network.	L3	6M	
OR					
6	a	List the communication protocols used for M2M local area networks.	L2	6M	
	b	Describe how NFV can be used for virtualizing IoT device?	L2	6M	
		UNIT-IV			
7	a	Justify how Raspberry Pi is different from a desktop computer.	L4	6M	
	b	Describe various features of a Raspberry Pi device.	L2	6M	
		OR			
8		Explain the various frequently used commands during operation of Linux OS.	L2	6 M	
	b	List the flavors of Linux OS supported by Raspberry pi device. UNIT-V	L2	6M	
9	a	Design a smart home automation system using IoT With mode REST service.	L5	6M	
	b	Define Information model specifications for the Intrusion Detection system. OR	L2	6M	
10	a	Define Domain model specifications for the Intrusion Detection system.	L2	6M	
	b	Write a python code for IoT printer to Raspberry Pi.	L4	6M	