Q.P. Code: 19EC0450



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${\bf SIDDHARTH\ INSTITUTE\ OF\ ENGINEERING\ \&\ TECHNOLOGY::\ PUTTUR}$

(AUTONOMOUS)

B.Tech III Year I Semester Supplementary Examinations August-2022 INTRODUCTION TO IOT

(Open Elective- III)

		(Open Elective- III)		
Ti	me	e: 3 hours Ma	x. Mark	s: 60
		(Answer all Five Units $5 \times 12 = 60$ Marks)		
		UNIT-I		
1	a	Describe the characteristics of IoT.	L1	6M
	b	Describe an example of an IoT system in which information and knowledge are	L1	6M
		inferred from the data.		
		OR		
2		Describe the levels of IoT with suitable examples.	L1	6M
	b	List the applications of IoT. UNIT-II	L3	6M
3	9	Explain how IoT technology can used in the following application areas:	L1	6M
3	(i) Emergency response (ii) Weather monitoring			
	b	Describe how the environment can be more protected with the help of IoT	L1	6M
		technology in the following categories:		
		(i)Forest fire detection (ii) River flood detection		
		OR		
4	a	Define how the IoT technology can be implemented in smart lightening and	L1	6M
	,	intrusion detection systems.	T 1	
	D	Describe how the IoT technology can be implemented in smart appliances and smoke/gas detection systems.	L1	6M
		UNIT-III		
5	9	Describe how SDN can be used for various levels of IoT.	L2	6M
J		Sketch the structure of M2M Gate way Network	L1	6M
	~	OR		01.1
6	a	List the communication protocols used for M2M local area networks.	L3	6M
	b Mention the advantages of IoT design methodology contrast to traditional			6M
		designing of IoT.		
		UNIT-IV		
7	a	Explain the various frequently used commands during operation of Linux OS.	L1	6M
	b	Write a short note on various raspberry pi interfaces used for data transfer.	L2	6M
		OR		
8		Illustrate how Raspberry Pi is different from a desktop computer.	L3	6M
	b	List the uses of GPIO pins in a IoT device?	L3	6M
0		UNIT-V	т 1	(M
9		Explain service specification for home automation system in state service.	L1 L1	6M
	Ŋ	Define Process specifications for the Intrusion Detection system. OR	LI	6M
10	a	Write a python program for room and door REST services using serializes.	L2	6M
	b	Implement the analytics component for the forest fire detection system.	L2	6M

*** END ***