Re	g.	No: in a log of a star of	
1418	-	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR	
		(AUTONOMOUS)	
		B.Tech III Year II Semester Supplementary Examinations February-2022	
		INTRODUCTION TO IOT	
Fim	e. 3	(Open Elective-I) hours Max. Marl	ks. 60
	<b>c</b> . <i>J</i>	PART-A	KS. 00
		(Answer all the Questions $5 \ge 2 = 10$ Marks)	
1	a	List out the Features of IoT.	<b>2</b> M
	b	What are the elements of a home automation system?	<b>2</b> M
	с	Define Network Function Virtualization.	<b>2</b> M
	d	Define Micro Python.	<b>2</b> M
	e	List out various versions of raspberry pi devices till date.	<b>2</b> M
		PART-B	
		(Answer all Five Units $5 \ge 10 = 50$ Marks)	
		UNIT-I	
2	a	Explain the role of things in IoT.	5M
	b	Explain various link layer protocols of IoT.	<b>5M</b>
		OR	
3	a	Describe an example of an IoT system in which information and knowledge are	<b>5M</b>
		inferred from the data.	
	b	Mention the applications of IoT	<b>5M</b>
		UNIT-II	
4	a	Describe how the IoT technology can be implemented in smart appliances and	<b>5M</b>
		smoke/gas detection systems.	
	b	Explain the implementation of IoT technology in following areas:	<b>5M</b>
		(i) Smart Parking (ii)Smart Lightening	
		OR	
5	a	Explain how IoT technology can used in the following application areas:	<b>5M</b>
		(i) Structural health monitoring (ii) Surveillance	
	b	Explain how IoT technology can used in the following application areas:	5M
		(i) Weather monitoring (ii) Noise pollution monitoring.	
		UNIT-III	
6	a	Draw and explain the M2M system architecture.	<b>5M</b>
	b	List the communication protocols used for M2M local area networks.	5M
		OR	
7	a	Draw the structure of M2M Gate way Network.	6M
	b	Mention the advantages of IoT design methodology contrast to traditional designing of IoT.	<b>4M</b>
		UNIT-IV	
8	a	Draw and explain the basic building blocks of IoT device.	6M
	b	Explain in brief about the OOP concepts.	<b>4M</b>

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Q.P. Code: 18EC0449			
		OR	
9	a	List the flavors of Linux OS supported by Raspberry pi device.	<b>5M</b>
	b	Explain the various frequently used commands during operation of Linux OS.	<b>5M</b>
		UNIT-V	
10	a	Explain service specification for home automation system in state service.	<b>5M</b>
	b	Define service specifications for the Intrusion Detection system.	<b>5M</b>
		OR	
11	a	Write a python code for IoT printer to Raspberry Pi.	5M
	b	Explain functional and operational view specifications for Home Intrusion detection system.	5M

\*\*\*END\*\*\*