R20

SET -1

III B. Tech II Semester Supplementary Examinations, December -2023
IOT AND APPLICATIONS
(Com to EEE,CSE,IT,CSE(AI&ML),CSE(CS),CSE(DS), AI&DS)

Time: 3 hours
Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
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UNIT-I
1.	a)	Define IoT, explain the enabling Technologies.	[7M]
	b)	Discuss about Evolution of Internet of Things.	[7M]

(OR)

2.	a)	Define IoT and explain about the different types of IoT models.	[7M]
	b)	Explain about the Design principles and needed capabilities IoT.	[7M]

UNIT-II
3.	a)	Explain the ARM Cortex Processors of IoT supported Hardware platform with an example.	[7M]
	b)	Explain about the difference Arduino and Raspberry Pi.	[7M]

(OR)

4.		Write and explain Cortex-M0 Processor Instruction Set and ARM and Thumb Instruction Set.	[14M]

UNIT-III
5.	a)	Explain about Different communication technologies with an example.	[7M]
	b)	Differentiate the differences between MQTT and Bluetooth protocols.	[7M]

(OR)

6.	a)	Define Bluetooth, write and explain the different Bluetooth Key Versions.	[7M]
	b)	Differentiate the differences between Zigbee and Bluetooth protocols.	[7M]

UNIT-IV
7.	a)	Explain about Data acquisition with an example.	[7M]
	b)	Define data, Explain the differences between Structured data and Unstructured Data.	[7M]

(OR)

8.	a)	Explain about IoT cloud based services using the Xively platform sensor.	[7M]
	b)	Explain about IoT application development.	[7M]

UNIT-V
9.	a)	Describe Healthcare and give any 2 examples of Healthcare IoT for daily use.	[7M]
	b)	Explain any 2 Home appliances of IoT.	[7M]

(OR)

10.	a)	Discuss about Cloud Analytics for IoT Application.	[7M]
	b)	Describe Home Automation and give any 2 examples of Home Automation IoT for daily use.	[7M]

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