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15CS81

Eighth Semester B.E. Degree Examination, June/July 2023
Internet of Things Technology

Time: 3 hrs.   Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1	a.	What is IoT? Explain the features of IoT.	(08 Marks)
	b.	Explain IoT applications.	(08 Marks)

OR

2	a.	Explain IoT network architecture components.	(10 Marks)
	b.	Write explanatory note on IoT data management.	(06 Marks)

Module-2

3	a.	What are Sensors and Actuators in IoT?	(04 Marks)
	b.	What are smart physical objects in IoT?	(06 Marks)
	c.	What are the primary components of smart connected products?	(06 Marks)

OR

4	a.	What are actuators in IoT? Explain.	(04 Marks)
	b.	Explain IoT access Technologies.	(12 Marks)

Module-3

5	a.	List the business case for IoT and IT.	(05 Marks)
	b.	What is meant by device management in IoT?	(05 Marks)
	c.	What are the networking technologies adopted with IoT?	(06 Marks)

OR

6	a.	Explain the application protocols for IP.	(12 Marks)
	b.	Briefly describe the IoT application transport methods.	(04 Marks)

Module-4

7	a.	Explain briefly big data analytics tools and technology.	(12 Marks)
	b.	What do you mean by edge streaming analytics? Explain.	(04 Marks)

OR

8	a.	How IoT security different from physical and conventional IT security? Explain.	(06 Marks)
	b.	What is octave and fair? Explain.	(10 Marks)

Module-5

9	a.	Write a python program on Rasberry Pi to blink an LED.	(06 Marks)
	b.	Explain Smart City Security architecture.	(10 Marks)

OR

10	a.	Explain the features of Ardunio UNO with regard to IoT.	(08 Marks)
	b.	Explain how IoT can be used with consumer appliances.	(08 Marks)

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