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15CS81

Eighth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Internet of Things Technology

Tir	ne:	3 hrs.	Marks: 80
	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
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		What is IOT? Evaloin in details a Chasis of IOT	
1	a.	What is IOT? Explain in detail on Genesis of IOT.	(08 Marks)
	b.	What does IOT and digitaization mean? Elaborate on this concept.	(04 Marks)
	c.	Write a short note on "IOT impact in Real World".	(04 Marks)
		OR C	
2	a.	Discuss IOT challenges.	(08 Marks)
	b.	With a neat diagram, explain architecture of IOT.	(04 Marks)
	C.	Explain Core IOT functional stack.	(04 Marks)
		Module-2	
3	a.	Mention any six sensor types are measuring physical phenomenon and summa	rize each of
		them with suitable example.	(06 Marks)
	b.	Identify the characteristics of smart objects and illustrate them.	(06 Marks)
	C.	What are trends in smart object impacting IOT? Classify those.	(04 Marks)
		or or	
4	a.	Explain the physical layer, MAC layer, topology and security aspects of IEEE 80	02.15.4.
			(08 Marks)
	b.	Dramatize LoRaWAN Architecture.	(05 Marks)
	C.	What NB-IOT deployment options and explain them,	(03 Marks)
		Module-3	
5	a.	Explain working of IP as the IOT network layer	(08 Marks)
	b.	Write note on Busines case for IP.	(04 Marks)
	C.	Discuss need for optimization.	(04 Marks)
	C		
		OR	
6	a.	Describe application protocols for IOT.	(08 Marks)
	b.	Discuss the various methods used in IOT application transport.	(08 Marks)
		Module-4	
7	a.	Explain the elements of Hadoop with a neat diagram.	(07 Marks)
	b.	Explain neural network in machine learning with a detailed example.	(05 Marks)
	c.	Describe the components of FNF.	(04 Marks)
		OR	
0		OR Explain Formal Rick Analysis Structures	(00 14 1)
8	a.	Explain Formal Risk Analysis Structures.	(08 Marks)
	b.	Explain the Purdue model for control hierarchy and OT network characteristics.	(08 Marks)

1 of 2

Module-5

9 a. Give a brief note on Arduino UNO.

(04 Marks)

b. With a neat diagram, explain Raspberry Pi board.

(04 Marks)

e. With a neat diagram, explain wireless temperature monitoring system using Raspberry Pi.

(08 Marks)

OR

10 a. Explain in detail smart city IOT architecture.

(08 Marks)

b. With the case study explain smart and connected cities using Raspberry Pi.

(08 Marks)

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2 of 2