Total No. of Questions: 6]	00	SEAT No.:
P46		[Total No. of Pages : 2

TE/INSEM/APR-51 T.E. (Computer Engineering) (Semester - II)

	310	0252 : EMBEDDED SYSTEMS & INTERNET OF THINGS	
		(2015 Pattern)	
Time	e:11	Hour] [Max. Marks	: 30
Insti	ructio	ons to the candidates:	
		1) Answer Q.1 or Q.2, Q3 or Q.4, Q5. or Q.6.	
		2) Assume suitable data if necessary.	
		3) Figures to the right indicate full marks.	
		4) Draw neat & labelled diagram wherever necessary.	
Q 1)	a)	Explain rate monotonic algorithm with suitable example. Explain the	lise
L -)	u)	of Ptilization-Based Analysis.	[5]
		Oly unization-based Analysis.	
	b) \	Explain the Publish-Subscribe Communication Model with diagram.	[5]
		OR	
Q2)	a)	Justify any five features of ARM which makes it special.	[5]
	1. \	Control DECT TWO COLUMN	r <i>=</i> 1
	b)	Compare the REST and Web Socket protocol.	[5]
			0
02)	`		
Q3)	a)	With the help of diagram but and briefly explain the steps involved in	0
		IoT system design methodology.	[~] [5]
	b)	Explain process specification for home automation IOT system.	[5]
	- /		L . J
		OR OR	
04)	a)	Explain service specification step of IoT system design methodological	ogv.
		consider smart IoT-based home automation system as an example.	[5]
	b)	Explain the Operational View Specification step of IoT system design	n.[5]
		6.	
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Q5) a) Justify 'the three-layer DCM classification is more about the IoT value chain than its system architecture at runtime'. [5] What is SCADA? What are the different blocks of SCADA? b) [5] OR Define and explain Horizontal, vertical application and 5A and 3I. **Q6**) a) [5] List and explain various features of Raspberry pi board (Model B [5] $\Theta\Theta\Theta$ And the state of t

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