Total No. of Questions: 4]	260	SEAT No.:	
P5029		[Total No. o	f Pages :
	[6187]-429		

T.E. (Computer Engineering) (Insem)
INTERNET OF THINGS AND EMBEDDED SYSTEMS

(2019 Pattern) (Semester - I) (310245(A)) (Elective - I)

Time	e:1	Hour] [Max. Mar	ks:30
Instr	ucti	ions to the candidates:	
	<i>1)</i>	Answer Q.1 or Q.2, Q.3 or Q.4.	
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.	•
	3)	Figures to the right indicate full marks.	
	<i>4)</i>	Assume suitable data if necessary.	
01)	`		C
<i>Q1)</i>	a)	What is an embedded system? What are the characteristics	
		embedded system?	[5]
	b)	Introduce any embedded processor in brief. Explain its architectu	re.[5]
	c)	What is a real time system? Describe the types of real time tasks.	[5]
		QR	
Q2)	a)	Draw and elaborate the general model of an embedded system, wh	ıat are
		the different applications of an embedded system.	[5]
	b)	Illustrate the different components of Microcontroller.	[5]
	c)	Define SOC. Explain it with suitable examples of it.	[5]
Q3)	a)	Explain the concept of Things' in IoT with suitable examples of	ofiloT
و د	ω,	devices.	[5]
	b)		
	U)	Explain it with suitable application.	[5]
		What are the challenges in implementing IoT applications?	
	~	OR	[5]
			. 11
<u>(</u> (4)	a)	Enlist IoT deployment levels and explain IoT level 4 with su	
		application.	[5]
	b)	Define IoT and illustrate the use of Raspberry PDas an IoT Device	e with
		suitable application.	[5]
	c)	Illustrate the Logical design of IoT with suitable example.	[5]

