

Code No: **R41042**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, October/November - 2017 EMBEDDED SYSTEMS

(Common to Electronics and Communication Engineering & Electronics and Computer Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a)	Explain how embedded system is designed to serve the purpose of (i) Data collection/storage/Representation (ii) Data communication	
		(iii) Control.	[8]
	b)	Explain the Memory selection for embedded system.	[7]
2	a) b)	Explain the application specific embedded system with one Example. Explain silicon providers, solution providers, and tools and platform	[8]
	σ,	providers of Automotive embedded Market.	[7]
3	a)	Explain schematic design using OrCAD capture CIS.	[8]
	b)	Explain about the PCB layout design.	[7]
4	a)	Discuss the Assembly Language based development in embedded firmware design.	۲ Q ٦
	b)	Discuss the ISR concept and Multiple interrupts.	[8] [7]
_	۵)	Explain the different well time bound to advance that make well time	F01
5	a) b)	Explain the different real time kernels and features that make real time. Explain the concept of multithreading.	[8] [7]
	U)	Explain the concept of multitureating.	[/]
6	a)	Explain sequential program model for seat belt warning system.	[8]
	b)	Explain about the issues in embedded system design.	[7]
7	a)	Explain JTAG based boundary scanning for hardware testing.	[8]
	b)	Explain the role of simulator and emulator in embedded system development.	[7]
8		Write short note on the following	
		a) Interpreters	
		b) Compilers	
		c) Linkers	[15]