

Code No: **PT42043C**

R13

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 EMBEDDED SYSTEMS

(Electronics and Communications Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

1.	a)	Write the Hardware components used in Embedded system.	[4]
	b)	Write the differences between microprocessor and micro controller.	[3]
	c)	What is the usage of embedded C in embedded systems?	[4]
	d)	Classify and list the source files of processor dependent and processor independent.	[3]
	e)	Differentiate deassembler and decompiler.	[4]
	f)	What is the importance of simulator?	[4]
		$\underline{\mathbf{PART-B}} (3x16 = 48 Marks)$	
2.	a)	Explain about core of embedded system.	[8]
	b)	Explain about PCB and passive components of Embedded system.	[8]
3.	a)	Explain the I/O types used in embedded hardware design.	[8]
	b)	Explain the significance of timer and counting devices in embedded Hardware	[8]
		design.	
4.	a)	Explain about the Interrupt service mechanism.	[8]
	b)	Discuss the embedded firmware design approaches.	[8]
5.		What is Hardware Software Co-design? Explain the important Hardware Software	
		trade-offs in hardware software partitioning.	[16]
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6.	a)	Explain about the integrated development environment.	[8]
	b)	Discuss the role of target hardware debugging in system development.	[8]
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7.		Explain the Laboratory Tools	
		a) Simple LED Tests and Logic probe	[17]
		b) Oscilloscope.	[16]