Total No.	of Questions	: 6	ĺ
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SEAT No.:		
[Total	No. of Pages	:2

P4947

BE/In Sem. - 42 B.E. (E & TC)

EMBEDDED SYSTEMS & RTOS

	(2012 Course) (Semester -I) (Elective - I)	
Time : 1 Instructi	Hour] [Max. M	arks: 30
1) 2) 3) 4)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Assume suitable data, if necessary.	
Q1) a)	Explain the following design metric. Time to market, Unit cost.	[5]
b)	Explain Embedded processor technology.	[5]
	OR	
Q2) a)	Explain V-shape model.	[5]
b)	Explain the following design metric NRE cost, size.	[5]
Q3) a)	Explain the following.	[5]
	i) Non Preemptive kernel	
	ii) Preemptive kernel	
b)	Explain Mutual Exclusion.	[5]
	OR	
Q4) a)	What is Deadlock? When it occurs?	[5]
b)	What is multitasking? Explain the advantages of multitasking.	[5]

Q5) a)	Ex	Explain any two task related functions.		
b)	Ex	plain the following time related functions.	[5]	
	i)	OSTime Dly ()		
	ii)	OSTime Dly HMSM ()		
		OR		
Q6) a)		What is semaphore? How does it help in resource sharing in Rikernel.		
b)	Ex	plain the following functions related to message Q.	[5]	
	i)	OSQ Create ()		
	ii)	OSQ Pend ()		
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