Tota	l No.	o. of Questions : 10] SEAT N	o. :
P31	06	. ()	otal No. of Pages : 2
		[5670] 205	
		B.E. (E & TC)	
		EMBEDDED SYSTEMS & RTOS	
		(2012 Pattern) (Elective - I) (Semester	- I)
			,
Time	2:21/	1/2 Hours]	[Max. Marks : 70
		ions to the candidates:	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.	9 or Q.10.
	<i>2</i>)	Near diagrams must be drawn wherever necessary.	90
	<i>3</i>)	Figures to the right indicate full marks.	?
	<i>4</i>)	Use of logarithmic tables slide rule, Mollier charts	electronics pocket
		calculator and steam tables is allowed.	
		6.	
Q 1)	a)	Explain the spiral model and state its merits and demen	rits. [5]
	b) \	Explain how design metrics are depending on each other	with examples.[5]
	ŕ	OR.	•
Q2)	a)	Define the context Switching. What are the steps inv	
		context switching.	[5]
	b)	Explain the resource and shared resource in μCOS-II.	[5]
()3)	a)	Explain μCOS- II features. (Any five)	251
<i>Q3</i>)		Explain μ COS- if leatines. (Ally five)	200]
	b)	Explain following function in COS-II.	[5]
		i) OSINIT().	, 6
		ii) OSSTART().	<i>A</i> .
		OR	[5]
OA	٥)	Evaloin the weterful model in detail) [F]
Q4)	a)	Explain the waterfall model in detail.	[5]

Explain different sates of task with services as an example. b)

[5]

Explain BIOS and the role of boot loader in embedded Linux concept.[8] **Q5**) a)

What are storage considerations in case of embedded Linux? b) [8]

P.T.O.

	OR -		
Q6) a)	Explain the cross development environment used for embedded Linux.[8]		
b)	Explain the host and target system and its requirements.	[8]	
Q7) a)	List and explain various file systems used in Embedded Linux.	[8]	
b)	Explain the features of Universal boot loaders and porting U-boot.	[8]	
	OR		
Q 8) a)	Draw and explain linux kernel architecture.	[8]	
b)	Explain the following file system in linux.	[8]	
	i) ext2		
	ii) ext4		
	iii) ext3		
1	i) ext2 ii) ext4 iii) ext3 iv) JFFS2		
Q9) a)	Explain mobile phone as embedded system with software and hardware requirements. [10]		
b)	Explain the different lab tools required for embedded system design OR	.[8]	
Q10)a)		tate 10]	
b)	Why linux is preferred choice for development of embedded sysapplication.	tem [8]	
	Why linux is preferred choice for development of embedded sysapplication.		