Total No.	of (Questions	:	10]
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SEAT No.	:	

P3606

[Total No. of Pages: 2

	[4959] - 1085	
	B.E. (E&TC) (Semester - I)	
	Embedded Systems & Rtos	
	(2012 Course) (Elective - I)	
:3 H	[Max. Marks	:70
uctio 1) 2) 3)	Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Assume suitable data, if necessary.	
a)	Explain the following design metrics:	[4]
	i) Power	
	ii) Size	
b)	With the help of block diagram, explain the architecture of embed- system.	dec [6]
	OR	
a)	Explain the spiral model.	[6]
b)	Explain the Foreground Back ground systems with reference to RTOS	[4]
a)	Explain any two scheduling algorithms.	[6]
b)	Explain the context switching.	[4]
	OR	
a)	Write a program in embedded C to implement mail box.	[7]
b)	Explain any two task related functions.	[3]
a)	Explain the embedded Linux development environment with a ble diagram.	ock [8]
b)	Explain the memory storage considerations for embedded Linux system	. [8].
	a) a) b) a) b) a) b) a) b)	Embedded Systems & Rtos (2012 Course) (Elective - I) :3 Hours] [Max. Marks actions to the candidates:- 1) Neat diagrams must be drawn wherever necessary. 2) Figures to the right indicate full marks. 3) Assume suitable data, if necessary. a) Explain the following design metrics: i) Power ii) Size b) With the help of block diagram, explain the architecture of embeds system. OR a) Explain the spiral model. b) Explain the Foreground Back ground systems with reference to RTOS a) Explain any two scheduling algorithms. Explain the context switching. OR a) Write a program in embedded C to implement mail box. b) Explain any two task related functions. a) Explain the embedded Linux development environment with a blediagram.

P.T.O.

Q6)	a)	Explain the steps to execute any C program on embedded system development board. (ARM 9).	m 3]				
	b)	Explain the Binary utilities. [8	3]				
Q7)	a)	Explain various file systems used in Embedded Linux. [8	3]				
	b)	Explain the device driver concept used in embedded Linux. [8	3]				
OR							
Q 8)	a)	What is universal boot loader? Explain. [8	3]				
	b)	What are boot loader challenges? [8	3]				
Q9)	a)	Explain the embedded software development tools. [8	8]				
	b)	Explain mobile phone with suitable block diagram and state its softwar requirements. [10]					
		OR					
Q10)	a)	Explain the issues in hardware - software design. [8	3]				
	b)	Explain the different lab tools required for embedded system design.[10])]				

