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

SEAT No.:	
-----------	--

P3606

[Total No. of Pages : 2

[4959] - 1085

B.E. (E&TC) (Semester - I) **Embedded Systems & Rtos** (2012 Course) (Elective - I) Time: 3 Hours [Max. Marks:70 Instructions to the candidates:-Neat diagrams must be drawn wherever necessary. 2) Figures to the right indicate full marks. Assume suitable data, if necessary. 3) Explain the following design metrics: [4] **Q1**) a) Power i) ii) Size With the help of block diagram, explain the architecture of embedded b) [6] system. OR **Q2**) a) Explain the spiral model. [6] Explain the Foreground | Back ground systems with reference to RTOS[4] b) **Q3**) a) Explain any two scheduling algorithms. [6] Explain the context switching. [4] b) OR Write a program in embedded C to implement mail box. **Q4**) a) [7] Explain any two task related functions. [3] b) Explain the embedded Linux development environment with a block **Q5**) a) diagram. b) Explain the memory storage considerations for embedded Linux system.[8]

Q6)	a)		em [8]
	b)	Explain the Binary utilities.	[8]
Q 7)	a)	Explain various file systems used in Embedded Linux.	[8]
	b)	Explain the device driver concept used in embedded Linux.	[8]
		OR	
Q 8)	a)	What is universal boot loader? Explain.	[8]
	b)	What are boot loader challenges?	[8]
Q9)	a)	Explain the embedded software development tools.	[8]
	b)		are [0]
		OR	
Q10)	a)	Explain the issues in hardware - software design.	[8]
	b)	Explain the different lab tools required for embedded system design.[1	10]

