Total	No.	of Questions: 10]	0	SEAT No.:
P3047		7 [5	5154]-615	[Total No. of Pages : 2
		B.E. (Electronics	s & Telecommu	nication)
		· ·	D SYSTEM & R	<i>'</i>
		(2012 Course) (S	9	
Tima	. 21.	2 Hours]		[Max. Marks : 70
		ons to the candidates:		priux. murks . 70
	()	Answer Q.No.1 or Q.No2, Q.No. Q.No.9 or Q.No.10.	o.3 or Q.No.4, Q.No.5	5 or Q.No.6, Q.No.7 or Q.No.8,
2	?)	Figures to the right indicate fu	ıll marks.	
3	3)	Neat diagram must be drawn w	herever necessary.	26
	()	Use of non programmable elec	-	ılator is allowed.
5	5)	Assume suitable data, if necess	ary.	
Q1)	a)	Explain features of embed	ded system and cla	ssify them with example.[5]
	b) *	Explain various proces processors.	or technologies	in design of embedded [5]
Q2)	a)	Explain difference betwee design.	en V model and W	ater fall model of software [5]
	b)	Explain design metrics wi	ith respect to came	era as embedded system. [5]
Q3)	a)	Explain kernel architectur	e & configuration	for RTOS. [5]
	b)	Explain the importance of management functions in		ion RTOS. Explain the time [5]
			$\bigcirc$ D	

OR

- **Q4)** a) What do you mean by task communication & explain various IPC techniques. [5]
  - b) Explain OSMailboxCreate() and OSMailboxPost() function. [5]

Q5)	a)	Compare BIOS with boot loader in embedded system.	[8]			
	b)	Explain tracing & profiling tools.	[8]			
		OR				
Q6)	6) a) List and explain various file systems used in Embedded Linux.					
	b)	What is binary utilities? Discuss miscellaneous binary utilities.	[8]			
<b>Q</b> 7)	a)	a) Define software testing. Explain various level of testing.				
	b)	Explain concept of loadable device driver for Linux kernel.	[8]			
		OR				
<b>Q8</b> )	a)	Draw and explain Linux kernel architecture.	[8]			
	b)	Discuss different Linux file systems.	[8]			
		3.				
<b>Q9</b> )	a)	Explain the use of ICE for testing embedded system with diagram.	[9]			
	b)	Explain mobile phone with its hardware & software requirements.	[9]			
		OR				
Q10	<b>)</b> a)	Explain embedded system hardware & software requirements in autom chocolate vending machine.	atic [9]			
	b)					
b) Explain GNU debugger! What is hardware assisted debugging? [9						
[515	54]-6	2				
[313	9 <b>4-</b> ]-0					