Total No. of Questions : 10]	260	SEAT No. :	
P9316		[Total No. of Page	es : 2
	[6181] 549		
	B.E. (E & TC)		

	EMBEDDED SYSTEM & RIUS	
	(2015 Pattern (Elective-I) (Semester-I)(404184C)	
Time : 2½ H	Jours 1 [Max. M	<i>larks</i> : 70
	to the candidates:	
	eat diagrams must be drawn wherever necessary.	
	gures to right indicate full marks.	
<i>3)</i> As	ssume suitable data, if necessary.	
Q1) a) I	Define following Terms:-) Time to market, i) Latency, ii) NRE Cost,	[5]
i) Time to market,	
ii	i) Latency,	
ii	ii) NRE Cost,	
9	v) Unit Cost,	
V	7) Flexibility	
b) E	Explain V-shaped model. State its merits and demerits.	[5]
- /	OR O	L- J
Q2) a) H	Explain Typical process for Embedded System development.	[5]
	Comment on commercial RTOS.	[5]
٠, ٠,	6	[-]
Q3) a) (Comment on significance of Interprocess communication.	.ເຮົາ
	Explain RTOS services	× [5]
0) 1	OR	\$ [2]
Q4) a) H	Explain any 03 queue functions	[5]
	Explain real times scheduling algorithm.	, – –
0) 1	Explain real times scheduling algorithm.	[5]
Q 5) a) B	Explain different ARM process series, its version and features.	[8]
	Explain CMSIS standard in detail.	
b) I	Explain Civisis standard in detail.	[8]
	OR	
Q6) a) H	How interrupt structure of cortex is different from ARM7.	[8]
	Draw interfacing diagram of motor control using PWM with L	PC1768.
7	Write down program or algorithm for the same.	[8]

P.T.O.

Q 7)	a)	Explain Linux Kernel architecture and its configuration.		
	b)	Explain the role of boot loader in Embedded linux system? What are	the	
		characteristics of the same.	[9]	
		OR		
Q8)	a)	Explain Linux file system. What is journaling flash file system? What	are	
~ /	,	advantages of the same.	[9]	
	b)	Explain the following tool utilities Minicomp, BusyBox, Red Boot.	[9]	
	- /		L- J	
00)	-)			
Q9)	a)	Write a program for Arduino board to read analog input and conve into digital.	rt it [8]	
	b)	Explain with the help of case study, the application development us		
	U)	Arduno board.	[8]	
		OR OR	[0]	
010	la)	Draw an interfacing diagram of 4 LEDs with Arduino board, write	te a	
220	<i>,</i> ,	program for the same.	[8]	
	b)	What is Arduino Uno? Explain standard libraries in Arduino.	[8]	
			9	
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