Total No	o. of Questions : 10]	SEAT No. :
P3508	8 [5560]-158	[Total No. of Pages : 2
	TE (E & TC)	
	EMBEDDED PROCESS	SOR
	(2012 Pattern) (Semester	
	(2012) atterny (semester	- 11)
	1/2 Hours]	[Max. Marks : 70
	ions to the candidates:	m 1 00 on 010
1) 2)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 Neat diagrams must be drawn wherever necessary	
3)	Figure to the right indicate full marks.	'•
<i>4</i>)	Assume suitable data, if necessary.	9
	CY 28	
01) a)	Duration de avalaire ADM 7 data flavores del	
Q1) a)	Draw and explain ARM 7 data flow model	. [6]
b)	Explain IOSET and IOCLR Registers of I	LPC 2148. [4]
	OR	
02)	D 1 1:	40
Q2) a)	Draw and explain memory map of LPC 21	48. [6]
b)	Draw and explain format of GPSR register	r of ARM 7. [4]
	6, 6,	
00)		1 11 10
Q3) a)	Draw interfacing diagram and write an em	
	LEDs connected at P0.8 to P0.15 of LPC	2148. [6]
b)	Explain SD card interfacing with LPC 214	8. [4]
	OR	
0.0	9.	
Q4) a)		
	string 'SPPU' on 16*2 LCD.	[6]
b)	With the help of interfacing diagram explain	in GSM interfacing with LPC
	2148.	[4]
		0,

Compare ARM CORTEX A, CORTEX M, CORTEX R processors.[8] **Q5**) a)

Explain CMSIS standard of ARM.

OR b)

[8]

Q6) a)	Explain registers used in CORTEX M3 processor.	[8]
b)	Explain thread and handler modes of Cortex M3.	[8]
Q7) a)	State feature of LPC 1768.	[8]
b)	Interface two 7 segment display to LPC 1768 and write a 'display digits '54' on them. OR	C' program to [8]
Q 8) a)	Draw & explain block diagram of LPC 1768.	[8]
b)	Interface RGB LED to LPC 1768 & Write a 'C' program to blue and green colour with some delay.	to display red, [8]
Q9) a)	Explain USB communication.	[9]
b)	Explain PIN connects black of LPC 1768 & registers as this block.	ssociated with [9]
,	OR OR	
Q10)a)	Explain CAN protocol in details.	[9]
b)	Explain Ethernet based communication.	[9]
	158 2 P.	
[5560]-1	158	