T. F [IT] SEM V CBGS MOV- Dec 2016

3/12/16

Sub: MES

EXTRA)

Q.P. Code: 594400

N.B.:- (1) Question No. 1 is Compulsory.

(2) Solve any three questions from the remaining form the remaining from the remainin

			(2) Solve any three questions from the remaining five questions.	
			(3) Figures to the right indicate full marks.	0
			(4) Assume suitable data where necessary.	25
			(4) Assume suitable data where necessary. Define Embedded System. Explain application areas of embedded system. Explain the pin configuration of 8051 microcontroller. Compare AJMP, SJMP, LJMP instructions of 8051 Explain Real Time operating Systems and SoC in detail. Explain various Embedded microcontroller cores in detail. Explain in detail ARM 7 pipelining	0
			52)	
	1	. (a)	Define Embedded System. Explain application areas of embedded system.	
		(b)	Explain the pin configuration of 8051 microcontroller.	5 5
		(c)	Compare AJMP, SJMP, LJMP instructions of 8051	5
		(d)	Explain Real Time operating Systems and SoC in detail.	5
	1			5
	2.		Explain various Embedded microcontroller cores in detail.	10
		(b)	Explain in detail ARM 7 pipelining	10
	-	1.5	M	10
	3.	(a)		10
		(b)	and the state of t	10
		(0)	Explain the following SFR's of X051.	10
			SCON, TCON, TMOD, PCON	10
	4.	(a)	Evolein addressing M. A. Soore	
		(b)	Explain addressing Modes of 8051 microcontroller.	10
		(0)	Explain the following instructions with suitable examples w.r.t ARM processor (i) BX	10
			(ii) TEO	
			(iii) BIC	
			(iv) BKPT	
			(v) STC	
			210	
	5.	(a)	What is Semaphore? Explain the use of semaphore with respect to embedded systems.	
		(b)	Explain the architecture of \$051 microcontroller.	10
	-00			10
1	5.	7000	Write note on (any two):	
		(a)	Automated meter reading system	20
		(b)	Digital clock as an Embedded system	
		(c)	8051 Register Bank	
		(d)	Serial Port Communication in 8051	
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