

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2018

Subject Code:2160307		Code:2160307 Date:20/1	Date:20/11/2018	
Subj	ect 1	Name:Embedded System Design		
Time: 02:30 PM TO 05:00 PM Total M		rks: 70		
Instru	ction	ıs:		
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.	MARKS	
		E Walt I also a Children Control		
Q.1	(a)	•	03	
	(b)	•	04	
	(c)	•	07	
		of PORTC in detail.		
Q.2	(a)	Define: 1) Watchdog timer 2) Power-up timer	03	
	(b)	Explain the various configuration of clock oscillator types.	04	
	(c)	1	07	
		OR		
	(c)	· ·	07	
Q.3	(a)	1	03	
	(b)	1	04	
	(a)	out the benefits of Embedded C. Explain the sequence control loop with the help of example.	07	
	(c)	OR	07	
Q.3	(a)		03	
	(b)		04	
	(,,,	detail.		
	(c)	Write a c program to interface relay with pic16f877a.	07	
Q.4	(a)		03	
	(b)	Explain the TICON register with the help of pin description.	04	
	(c)		07	
		duty cycle 25% using Timer 0.		
		OR	0.0	
Q.4	(a)		03	
	(b)		04	
0.5	(c)	-	07	
Q.5	(a)		03 04	
	(b) (c)	•	0 4 07	
	(C)	Timer 1 and pre-scaler value is 8.	07	
		OR		
Q.5	(a)		03	
~	(b)	-	04	
	(c)		07	
	. ,	PIC16F887 microcontroller and display it on LCD.		
