SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -I
Academic Year 2022-2023(Even Semester)
FourthSemester
Electronics & Communication Engineering
19ECB211 – Microcontroller Programming & Interfacing

A

Time: 1$^{1/2}$ Hours   **MaximumMarks: 50**

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	Compare Microprocessor and Microcontroller.	CO1	Und
2.	List the applications of PIC Microcontroller	CO1	Ana
3.	PIC Microcontrollers are mostly used- Why?	CO2	Rem
4.	What is Wreg register?	CO1	Rem
5.	How many bits is TRIS Register?	CO2	Rem

PART – B (2*13=26 Marks) (1*14=14 Marks)

				CO	Blooms
6.	(a)	Illustrate the pin diagram of 16F877A and explain its configuration.	13	CO1	Und
		(or)			
	(b)	Explain microcontrollers and Embedded processors.	13	CO1	Und
7.	(a)	Analyze the TRIS registers in PIC16F8XX family.	13	CO2	Ana
		(or)			
	(b)	Examine about the counters and its usage in PIC16F877A	13	CO2	Ana

				CO	Blooms
8.	(a)	Develop the external architecture of the PIC diagram and explain.	14	CO1	App
		(or)			
	(b)	Develop any application of PIC 16F8XX family using input/output ports to design LED blinking.	14	CO2	App

Abbrevations:
CO-Course Outcomes;. **Rem**-Remembering; **Und:**Understanding; **App**-Applying; **Ana**-Analyzing; ; **Eva**-Evaluating; **Cre**-Creating

Course Co-ordinator   **Teaching Co-ordinator**   **Dean/ECE**