Reg.No: | | | | | | | |

SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -I
Academic Year 2023-2024(Even Semester)
Fourth Semester
Electronics & Communication Engineering
19ECB211 – Microcontroller Programming & Interfacing

B

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

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	Compare RISC and CISC.	CO1	Ana
2.	List the applications of Microcontrollers.	CO1	Rem
3.	PIC is mostly used over other microcontrollers- Justify.	CO1	Ana
4.	What is Status register?	CO2	Rem
5.	Recall the usage of TRIS and PORT registers in PIC 16F8XX	CO2	Rem

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

				CO	Blooms
6.	(a)	Draw and explain the memory architecture of PIC family	13	CO1	Und
		(or)			
	(b)	Examine the importance of status register in PIC microcontroller.	13	CO1	Ana
7.	(a)	Evaluate the Time delay in PIC16F8XX family.	13	CO2	Ana
		(or)			
	(b)	Analyze the Instruction pipeline in PIC microcontrollers.	13	CO2	Ana
8.	(a)	Could you provide a comprehensive overview of the internal memory organization within the PIC16F8XX family of microcontrollers, highlighting its structure and functionality?	14	CO1	Ana
		(or)			
	(b)	Survey the method which provides flexible access to memory, allowing you to easily access variables, arrays, records, pointers, and other complex data type in PIC16F877A microcontroller.	14	CO1	Ana

Abbreviations: CO – Course Outcomes; Rem- Remembering; Und – Understanding; App – Applying; Ana – Analyzing;

Reg.No:

SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -I
Academic Year 2023-2024(Even Semester)
Fourth Semester
Electronics & Communication Engineering
19ECB211 – Microcontroller Programming & Interfacing

B

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

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	Compare RISC and CISC.	CO1	Ana
2.	List the applications of Microcontrollers.	CO1	Rem
3.	PIC is mostly used over other microcontrollers- Justify.	CO1	Ana
4.	What is Status register?	CO2	Rem
5.	Recall the usage of TRIS and PORT registers in PIC 16F8XX	CO2	Rem

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

				CO	Blooms
6.	(a)	Draw and explain the memory architecture of PIC family	13	CO1	Und
		(or)			
	(b)	Examine the importance of status register in PIC microcontroller.	13	CO1	Ana
7.	(a)	Evaluate the Time delay in PIC16F8XX family.	13	CO2	Ana
		(or)			
	(b)	Analyze the Instruction pipeline in PIC microcontrollers.	13	CO2	Ana
8.	(a)	Could you provide a comprehensive overview of the internal memory organization within the PIC16F8XX family of microcontrollers, highlighting its structure and functionality?	14	CO1	Ana
		(or)			
	(b)	Survey the method which provides flexible access to memory, allowing you to easily access variables, arrays, records, pointers, and other complex data type in PIC16F877A microcontroller.	14	CO1	Ana

Abbreviations: CO – Course Outcomes; Rem- Remembering; Und – Understanding; App – Applying; Ana – Analyzing;