SRI KRISHNA COLLEGE OF TECHNOLOGY



An Autonomous College, Accredited by NAAC with "A" grade and by NBA-AICTE

Coimbatore, Tamil Nadu Academic Year 2021-2022 (ODD SEM)



B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

CONTINUOUS INTERNAL ASSESSMENT - I

Class Course Code Course Title Date 10.8.2021

III Year CSE 19CS502 MICROPROCESSORS AND MICROCONTROLLERS

Duration: 90 min Max: 50 Marks

Course Outcomes:				
CO 1	Understand the Fundamental Concepts of 8,16,32 bit microprocessors and microcontrollers			
CO 2	Understand the architecture, Instruction Set and Addressing Modes of 8051			
CO 3	Do assembly language programming.			
CO 4	Identifying the appropriate peripheral/interfacing device for specific applications			
CO 5	Do interfacing design of peripherals like I/O, A/D, D/A, timer etc.			
CO 6	Develop systems using different microcontrollers.			

Part – A (09 x 02 = 18 Marks) Answer All Questions		ВТ	СО	Marks
1	Classify the bus signals used in computer system.	U	CO1	2
2	Calculate the total amount memory in a processor for the given size of address bus. Address bus = 16 bit and 32 bit.	AP	CO1	2
3	List types of the signals generated by external device to perform task in 8085.	U	CO1	2
4	If a word is defined as 16 bit, estimate the number of words in 64 bit data item.	AP	CO1	2
5	For a microcontroller based product, suggest a criteria for choosing the microcontroller.	AN	CO1	2
6	Compare X86PC with embedded systems used in many applications.	AN	CO 1	2
7	Inter the SFR used for controlling operation in 8051.		CO 2	2
8	Sketch XTAL connection to 8051 using quartz crystal oscillator	U	CO 2	2
9	Microcontroller is referred as "system on chip". Justify the statement.	AN	CO 2	2

	Part – B (02 x 16 = 32 Marks)	вт	со	Marks
	Answer All Questions	ы		
10 .	Elaborate on the different sections of 8085 microprocessor with its Architecture using necessary diagrams.	U	CO 1	16
11.	Examine the Logical design of data manipulation and communication inside an 8051 Microcontroller using its Block Diagram and narrate on each block and pin of 8051.	AN	CO2	16