Reg. No. :										
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Question Paper Code: 95B01

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Fifth Semester

Biomedical Engineering

19UBM501- Microprocessor and Microcontroller

(Regulations 2019)

Duration: Three hours Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1.	List	few applications of microprocessor-based system.	CO1- U			
2.	Wha	at are the functions of an accumulator?	CO1- U			
3.	Exa	mine the significance of EA line in 8051 microcontroller	CO3- Ana			
4.	Des	scribe about the baud rate in 8051	CO1- U			
5.	Def	ine DPTR	CO1- U			
6.	Which Register is used for serial port programming in 8051? Illustrate it.			CO1- U		
7.	List the units present in the PIC memory Module.			CO1- U		
8.	8. What are the groups of instruction set in PIC micro controller?			CO1- U		
9.	9. Describe about the VIC			CO1- U		
10.	Write the Applications of ARM processor.		CO1- U			
		PART - B (5 x 16= 80Marks)				
11.	(a)	Draw the block diagram of 8085 microprocessor and explain its architecture?	CO1- U	(16)		
		Or				
	(b)	Define addressing mode? And Explain the addressing modes of 8086 Microprocessor?	CO1- U	(16)		

12.	(a)	Draw the pin diagram of 8051 Microcontroller and explain the I/O port circuits in detail	CO1- U	(16)
		Or		
	(b)	Elaborate in detail about internal architecture of 8051 microprocessor and explain it detail?	CO1- U	(16)
13.	(a)	Explain in detail about an interface of 16x2 LCD display using a 8051 microcontroller	CO1- U	(16)
		Or		
	(b)	Explain in detail about External memory interface in 8051 microcontroller	CO1- U	(16)
14.	(a)	Briefly describe about the internal architecture of PIC16F877 microcontroller	CO1- U	(16)
		Or		
	(b)	With a Proper example explain about the addressing modes of PICF877 Microcontroller.	CO1- U	(16)
15.	(a)	Draw and explain the architecture of ARM Processor Or	CO1- U	(16)
	(b)	Explain in detail about an interface of LCD display using ARM processor	CO1- U	(16)