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

Question Paper Code: 95B01

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

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.	What are the functions of an accumulator?	CO1- U
3.	Examine the significance of EA line in 8051 microcontroller	CO3- Ana
4.	Describe about the baud rate in 8051	CO1- U
5.	Define 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.	What are the groups of instruction set in PIC micro controller?	CO1- U
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	CO1- U	(16)
		Or		
	(b)	Explain in detail about an interface of LCD display using ARM processor	CO1- U	(16)