		Reg. No. :											
Question Paper Code: 54B01													
B.E./B.Tech. DEGREE EXAMINATION, DEC 2020													
Fifth Semester													
Biomedical Engineering													
15UBM501 -MICROPROCESSOR AND MICROCONTROLLER													
(Regulation 2015)													
Dura	ation: 1.15 hrs						Μ	axim	um:	30 N	Aark	S	
PART A - $(6 \times 1 = 6 \text{ Marks})$													
(Answer any six of the following questions)													
1.	The address bus is a g	roup of										CO	1- R
	(a) 8 lines	(b) 10 lines	(c) 16	line	S			(d)	12 li	ines		
2.	The addressing mode in instruction CMP M is											CO	1- R
	(a) Direct	(b) Register	(c) In	direc	t			(d)	Imp	lied		
3.	The instruction tells the assembler the address of the CO2- R memory location for the next instruction or data byte should be assembled.							2- R					
	(a) ORG	(b) OGR	(c) R(GN				(d)	CLF	ર		
4.	Which one of the following is not a one byte instruction set of 8085?								CO	2- R			
	(a) CMP M	(b) CMA	IA (c) MOV A,M					(d) MVI A,08H					
5.	The microcontroller 8051 has ports										CO	3- R	
	(a) 2	(b)4	(c)8					(d)	16			
б.	What are the status of the carry, auxiliary carry and parity flag affected if the write instruction							CO	3- R				
	MOVA,#9C ADD A,#64H												
	(a) CY=0,AC=0,P=0	(b) Y=1,AC=1,P=0	(c) C	Y=0,	AC=	1,P=	-0	(d)	CY=	=1,A	C=1,	P=1

7.	Telephone modem is one of the examples of								
	(a) ADC	(b) DAC	(c) BOTH	(d) NONE					
8.	The following 8051 port is not having multi-functionalities								
	(a) Port 0	(b) Port 1	(c) Port 2	(d) Port 3					
9.	RISC is a	RISC is a type architecture.							
	(a) Harvard	(b) Von Neumann	(c) both	(d) none					
10.	Working Register is a		CO5- R						
	(a) Status Register	(b) A Register	(c) PCL register	(d) PC					
	PART – B (3 x 8= 24 Marks)								
(Answer any three of the following questions)									
11.	Draw and explain the microprocessor.	CO1-U	(8)						
12.	Discuss the Interrupts	CO2-U	(8)						
13.	Explain the Special F	CO3- U	(8)						
14.	Draw the circuit diagram to interface an LCD display with 8051 CO4-U microcontroller and explain how to display a character using LCD display.								
15.	Explain the architecture of PIC processor				(8)				