Name: Priyanka	Printed Pages:2
Student University Roll No.: [redacted]	
School of Engineering Second Sessional Examination, Odd Semester (AS: 2022-23) B. Tech: CSE [Year: 3rd] [Semester: 5th]	
Course Title: MICROPROCESSOR Course Code: BCS 3502	Max Marks: 60 Time: 3hrs

Instructions if any: Read the question Carefully.

	SECTION 'A' Q.N.1. Attempt all parts of the following:	Course Objective	Marks
a)	What is Tri-state logic?	CO1	1
b)	Write a program to add 16 bit number by 8086.	CO2	1
c)	What is Read/Write signal?	CO2	1
d)	How to write a assembly language program?	CO5	1
e)	What is interrupt?	CO3	1
f)	What do you mean by program looping?	CO3	1
g)	Explain timing diagram of op-code fetch cycle of 8085.	CO4	1
h)	Describe counting and indexing in MP.	CO4	1

	SECTION 'B' Q.N.2. Attempt any two parts of the following:	Course Objective	Marks
a)	Explain the function of Accumulator and flag register.	CO2	6
b)	Draw and explain the internal architecture of 8085 microprocessor.	CO4	6
c)	Write a program to exchange the content of one memory location to another memory location in 8085.	CO5	6
d)	Draw and explain the block diagram of 8251 USART.	CO7	6

	SECTION 'C' Q.N.3. Attempt any two parts of the following:	Course Objective	Marks
a)	What are various addressing modes of 8086? Explain with example.	CO4	5
b)	Explain DMA data transfer scheme.	CO6	5
c)	Give detail classification of data transfer schemes.	CO2	5

	Q.N.4. Attempt any two parts of the following:		
a)	Define T-State, Machine cycle and instruction cycle.	CO3	5
b)	What are various addressing modes of 8086? Explain with example.	CO5	5
c)	Give basic characteristics of a microprocessor.	CO4	5

	Q.N.5. Attempt any two parts of the following:		
a)	Explain the different functional block of 8259.	CO6	5
b)	Write the function of following pins of 8085 S_0, S1 and IO.	CO1	5
c)	Write short notes on following instructions of 8085 with suitable examples : I. XCHG II. DAD III. - DAA	CO3	5

	Q.N.6. Attempt any two parts of the following:	
a)	Describe the architecture of 8086 in detail.	CO6
b)	Draw and explain pin diagram of 8259.	CO7
c)	Explain the addressing modes of 8085.	CO1