

				Sub	ject	Coc	ae: 1	KEC	405
Roll No:									

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BTECH (SEM IV) THEORY EXAMINATION 2021-22 INTRODUCTION TO MICROPROCESSOR

Tima	2 II o	urs Total Marks: 70					
Note: Attempt all Sections. If require any missing data; then choose suitably.							
_		SECTION A					
1.	Atte	empt <i>all</i> questions in brief. $2*7 = 14$					
	a.	Explain why the hierarchy of memory is used in digital computer.					
	b.	What are subroutines? Explain with the help of examples.					
	c.	Discuss the use of flag registers.					
	d.	Differentiate between microcontroller and microprocessor.					
	e.	Explain the use of ALE in 8085 microprocessor.					
	f.	What is branching? Describe branching instruction.					
	g.	Discuss five features of 8086 microprocessor.					
		SECTION B					
2.	Atte	empt any <i>three</i> of the following: $7*3 = 21$					
2.		What is Microprocessor? Explain the block diagram of 8085 microprocessor in					
		detail.					
	b.	Describe different types of data transfer operations with the help of examples.					
		Demonstrate the requirement of counters. Explain time delays with the help of					
		appropriate example.					
	d.	What is Assembly language? Write an Assembly language program to convert					
		binary number to BCD number using 8085 instructions.					
	e.	Discuss Programmable peripheral interface. Explain 8255 Programmable					
		peripheral interface in detail.					
		SECTION C					
3.	Atte	empt any <i>one</i> part of the following: $7*1 = 7$					
	a.	Explain the evolution of microprocessor and also discuss the types of					
		microprocessor.					
	b.	Describe different types of Interfacing devices with the help of examples.					
4.	Atte	empt any <i>one</i> part of the following: $7*1 = 7$					
	a.	Explain programming techniques. Describe looping with the help of example.					
	b.						
		the help of timing diagram.					
5.	Atte	empt any <i>one</i> part of the following: $7*1 = 7$					
	a.	Illustrate the concept of conditional call. Explain conditional call and return					
		instructions with examples.					
	b.						
_		interrupts used in 8085 microprocessor.					
6.		empt any <i>one</i> part of the following: $7*1=7$					
	a.	Write an Assembly language program to perform multiplication of two 8-bit					
	1.	numbers using 8085 instructions.					
7		Explain BCD-to-Seven segment code converter in detail.					
7.		empt any one part of the following: 7*1=7 What is DMA? Describe evals steeling in DMA. Explain the functioning of \$227					
	a.	What is DMA? Describe cycle stealing in DMA. Explain the functioning of 8237 DMA controller.					
	b.	Describe PIN diagram of 8086 microprocessor. Explain register organization					
	Ιο.	Describe III diagram of 6000 interoprocessor. Explain register organization					

used in 8086 microprocessor.