Bachelor of Science (S.Y. B.Sc.) (CBCS Pattern) Third Semester USELT06 - Electronics Paper-II Microprocessor

P. P Tim	Pages : ne : Th	2 ree Hou	ırs	* 3 6 8 0	*	GUG/W/18/11 Max. Marks	605 ; : 50
	Note	es: 1. 2.	All questions a Draw neat and	re compulsory and can labelled diagram whe	rry equal marks. never necessary.		
1.		Either	•				
	a)	Explain: i) Memory Interfacing. ii) Memory map.					5+5
				0	R		
	b)	Draw	a block diagram o	of 8085 microprocesso	r and explain the functio	n of each block in it.	10
2.		Either	•				
	a)	Explain the different addressing modes supported by 8085 microprocessor with suitable example.					
				0	R		
	b)	Explain the subroutine and stack operation. What is flowchart? Explain various symbols in it.					5+5
3.		Either	•				
	a)	Draw a flowchart and write a ALP for masking of 4 MSBs of a data 35H.					10
				0	R		
	b)	Draw and explain the timing diagram for instruction MVIr, data. What is interrupt? What are hardware and software interrupt.					5+5
4.		Either	•				
	a)	Draw a block diagram of internal architecture of microprocessor 8086 and explain each block.					
		State various operating modes of 8086 Explain any one.					
				0	R		
	b)	Explain the flag register in 8086 microprocessor. Explain the function of the following 8086 instructions.					5+5
		i) A	ADC	ii)	CALL addr		
		iii) H	HLT	iv)	DAA		
		v) (CLC				

Attempt **any ten** of the following.

5.

- a) What is a microcomputer?
- b) State the function of $\overline{\text{RESET IN}}$ pin in 8085.
- c) State the function of instruction decoder in $8085\mu P$.
- d) State the addressing mode of ADDB.
- e) Explain the meaning of IN 01 H.
- f) What is structured programming.
- g) State the function NOP instruction in 8085μ P.
- h) Define fetch cycle.
- i) Explain the meaning of DAA instruction.
- j) State the size of data bus in $8086\mu P$.
- k) Draw flag register format of 8086μP.
- 1) State the use of queue in $8086\mu P$.
