MANMOHAN TECHNICAL UNIVERSITY

SCHOOL OF ENGINEERING

MODEL Questions (2081)

Microprocessor (EG556EX) BEEE (II/II)

FM: 50 PM: 20

Group A: Multiple Choice questions [10 X 1 = 10]

1.	The size of the address bus in a 8085 microprocessor is a. 8- Bit b. 16- bit c. 20-bit d. 32-bit							
2.	2. The no. of address lines required to address a memory of size 32 K is							
		15			c. 18		d. 14	
3.	The size	The size of each segment in 8086 is						
					c. 50 Kb		d. 16 Kb	
4.	In 808	In 8085 microprocessor, the RST6 instruction transfer program execution to following						
location								J
	a.	0030H	b. 0024H		c. 0048H		d. 0060H	
5.	HLT of	HLT opcode means						
		Load data to a	accumulator					
	b. Store result in memory							
	c. Load accumulator with contents of register							
	d. End of Program							
6. At the beginning of a fetch cycle, the contents of the program counter are								
	a. Incremented by one							
	b.	Transferred to	address bus					
	C.	Transferred to	memory add	ress regi	ster			
	d. Transferred to memory data register							
7.	The fire	first machine cycle of an instruction is always						
	a. A memory read cycle							
	b. A fetch cycle							
	C.	c. An I/O read cycle						
	d.	d A memory write cycle						
8.		Signa	al prevent the r	micropro	cessor from rea	ading th	e same dat	a more than
	one.							
	a.	Pipelining	b. Handshak	ing	c. Controlling		d. Signalir	ng
9. Data transfer between the microprocessor for peripheral takes place through _								
	a. I/O port b. Input port c. Output port d. multi-port							
10.					nemory and pe			
	a. DMA technique b. Microprocessor c. register							d.
		Decoder						

Sample Question

Group B: Attempt any 8 questions [8 X 2 = 16]

- 1. Explain the processing cycle in a stored program concept.
- 2. Explain address de-multiplexing process in 8085 microprocessor with suitable diagram.
- 3. Explain different addressing modes of 8085 microprocessor.
- 4. Explain the PUSH and POP instruction with example illustrating the use of these instruction.
- 5. Explain the types of handshaking methods used in data communication
- 6. Explain the Bus Interface Unit (BIU) and Execution Unit (EU) in 8086.
- 7. Explain the difference between 8051 microcontroller and 8085 microprocessor
- 8. Explain the Assembling, Linking and Executing process of 8086 microprocessor
- 9. Explain the Addressing modes used in 8051 microcontroller

Group C: Attempt any 6 questions $[6 \times 4 = 24]$

- 1. Draw the internal architecture of 8086 microprocessor and explain the function of each part.
- 2. Write an assembly language program to interchange (swap) the contents of two memory locations 2100 H and 2101 H
- 3. What are the practical implications of asynchronous serial communication? Explain DTE-DCE connection according to RS-232 serial communication standard.
- 4. What is the purpose of Programmable Peripheral Interface 8255A? Explain about its different ports.
- 5. Explain the operation mechanism of DMA controller.
- 6. What is a flag? Discuss about 8085 associated flags. Show how these flags are affected by arithmetic and logical instructions.
- 7. Differentiate between maskable and non-maskable interrupts. Explain how different interrupt pins are used in 8085.

Sample Question