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Question Paper Code: 35052

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Fifth Semester

Electronics and Instrumentation Engineering

01UEI502 - MICROPROCESSOR AND INTERFACING

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions.

PART A - $(10 \times 2 = 20 \text{ Marks})$

- 1. Differentiate program counter and stack pointer.
- 2. What is the function of the accumulator.
- 3. Write the functions of an assembler.
- 4. What is the function of IO/M signal in the 8085.
- 5. List the main features of 8259*A* interrupt controller.
- 6. Compare serial data transfer and parallel data transfer.
- 7. What is BHE.
- 8. Define pipelining?
- 9. Point out the salient features interrupt structure of an 8086 microprocessor.
- 10. Mention any four flag manipulation instructions.

11.	(a)	Discuss the execution of OUT instruction in 8085 processor and also draw the tindiagram.	ming (16)
		Or	
	(b)	Explain the pin diagram of 8085 with neat diagram.	(16)
12.	(a)	Explain the direct addressing modes and indirect addressing modes of 8085 example.	with (16)
		Or	
	(b)	Point out the instructions required for using stack in 8085 processor. Also expla functions.	in its (16)
13.	(a)	Relate the detailed concept of interfacing A/D converter with 8085 processor.	(16)
		Or	
	(b)	With a neat block diagram, explain in detail the internal architecture of 8255 ar registers.	nd its (16)
14.	(a)	Classify the various addressing modes of 8086 microprocessor.	(16)
		Or	
	(b)	Explain the interrupt mechanism, types and priority of 8086 microprocessor.	(16)
15.	(a)	Develop a program to add two 8 bit data (F0H and 50H) in 8086 processor and the result in the memory, when MASM assembler is used.	store (16)
		Or	
	(b)	Draw the structure of 8086 flag register and explain the function of the flags examples.	with (16)