Total No. of printed pages = 3 Co-403/Microprocessor/4th Sem/2013/N

MICROPROCESSOR

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions..

Answer question No.1 and any five from the rest.

1. Define:

 $2 \times 10 = 20$

- (a) Microprocessor
- (b) Instruction register
- (c) General purpose registers
- (d) HOLD and HLDA pins
- (e) JNZ instruction
- (f) Address space
- (g) Accumulator
- (h) Handshaking
- (i) Timing diagram
 - (j) I/O mapped I/O

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2.		tw the pin diagram of 8086 and explain the ction of each pin.
3.	(a)	Why addressing modes are necessary? Explain.
	(b)	Mention the components of an instruction cycle.
	(c)	Differentiate between assemblers and compilers. 4
		What is an interrupt ? Explain enabling, disabling and masking of interrupts. 2+6=8
		Write the full form of RISC and CISC.
5.	(a)	Write an assembly language program to evaluate the expression — $A * B + C/D - 2$ 4
	(b)	Describe the functions of 8259.
6.	(a)	To connect more devices to the microprocessor, which chip is used? Explain the chip with the help of a block diagram.
	(b)	Explain the interfacing of a 7 segment LED display with the microprocessor with the help of a diagram.
87/0	Co-40	3/Microprocessor (2)

7. Write notes on any two:

- 5×2=10
- (a) Instruction set of 8085
- (b) DMA controller
- (c) Programable Interval Timer (8253)

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