RETEST EXAMINATION - 2019

Semester: 4th (Old)

Subject Code: CO-403

MICROPROCESSOR

Full Marks -70

Time - Three hours

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

Instructions:

- 1. Questions on PART A are compulsory.
- 2. Answer any five questions from PART B.

PART - A

Marks - 25

1. Fill in the blanks: $1 \times 10 = 10$

- (a) Instruction pointer is a bit register.
- (b) PUSH, POP are related to operation.

[Turn over

(d) DMA stands for — — — — — —	(g) 8085 has 6 flags.
(e) CISC stands for ———————————————————————————————————	(h) 8086 has 8 addressing modes.
(f) 20 bit address bus can address ———————————————————————————————————	(i) H and L registers in 8085 are special purpose registers.
(g) JNZ instruction falls in ———————————————————————————————————	(j) An instruction cycle consists of many machine cycles.
(h) DIP stands for	Choose the correct answer: 1×5=5
	(a) SIM stands for
(j) An instruction has two parts ——— and Park ———— and Park ————————————————————————————————————	(i) Select Interrupt Mask
RALL	(ii) Set Interrupt Mask
te true or false: 1×10=110	(iii) Sorting Interrupt Mask
(a) INTR is a non-maskable interrupt. (b) There are 4 segment registers in 8086.	(iv) None of these
Harris Andrews	(b) EPROM is generally erased by using
1 1 1 1 1	(i) Ultraviolet rays
(e) The results of the operations are stored in the	(ii) Infrared rays
	(iii) Electric pulse
(f) ALE stands for Address Latch Enable.	(iv) Any of these
4/CO-403/Micro (O) (2)	4/CO-403/Micro (O)

- (c) 8251 is
- (i) PPI
- (ii) DMA controller
- (iii) USART
- (iv) None of these
- (d) SDRAM stands for
- (i) Static DRAM
- (ii) Synchronous DRAM
- (iii) Sequential DRAM
- (iv) None of these
- (e) 8086 is a bit processor.
- (i) 8
- (ii) 16
- (iii) 32
- (iv) None of these
- 4/CO-403/Micro (O) (4)

300(W)

PART-B

Marks - 45

- 4. (a) What are the two modes of operations of 8086?
- (b) Explain the pin diagram of 8085.
- (c) List and state the purpose of the different flags available in 8085.
- 5. (a) Draw and explain the timing diagram of memory read cycle.

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- (b) Define microprocessor.
- (c) Using a diagram explain the interfacing of LED with 8085.
- (a) Define the term multiplexing.
- (b) State in brief the different modes of operation of 8253.
- (c) Write an ALP to add two 8-bit numbers.
- (a) Explain with example any three addressing modes of 8085.
- (b) State a few applications of microprocessors.
- (c) Illustrate the interfacing of memory with 8085.
- 4/CO-403/Micro(O)
- (5)

- 8. (a) List and state the functions of the different blocks of the block diagram of 8085. 6
 - (b) State functions of segment, index and general purpose registers in 8086.
- 9. (a) List the five categories of instruction with an example in each case. 5
 - (b) Differentiate between memory mapped I/O and I/O mapped I/O. 4
- 10. Write short notes on any three : $3\times3=9$
 - (a) Programmed data transfer
 - (b) 8085 interrupts
 - (c) Interfacing of seven segment display.
 - (d) 8251
 - (e) DMA controller.

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(6)

300(W)