Co-403/Micro/4th Sem/2014/N

MICROPROCESSOR

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Answer any five questions.

- 1. (a) Define Microprocessor and give a few applications of it.
 - (b) Draw the block diagram of 8085 and explain the function of each block.
- 2. (a) What are the various buses present in 8085 and what are their functions?
 - (b) Discuss various types of addressing modes of Intel 8085 with suitable examples. 8

Turn over

- 3. (a) Draw and explain the timing diagram for memory read operation.
 - (b) Explain the various types of instruction groups available in 8085 with example from each group.
- 4. (a) What are the various schemes of data transfer from CPU / memory to I/O devices and vice versa. Discuss interrupt driven data transfer schemes with suitable examples.
 - (b) Differentiate between : (any one). 6
 - (i) Memory mapped I/O and I/O mapped I/O.
 - (ii) Vectored interrupt and Device polling.
- 5. (a) Write an assembly language program to add two 8 bit numbers.
 - (b) Write assembly language program to
 - (i) add two numbers and
 - (ii) mask of least significant 4 bits of an 8 bit number.

- 6. Explain the function of DMA controller 8257 and PPI 8255.
- 7. Write notes on any two:

7×2=14

- (a) 7 segment LED display
- (b) General purpose and special purpose Registers
- (c) 8086 processor
- (d) Pin details of 8085.