63/2 (SEM-2) CSIT 2.3

2022

COMPUTER SCIENCE AND TECHNOLOGY

(Theory Paper)

Paper Code : CSIT 2.3

(Microprocessor 8085 and 8086)

Full Marks – 80

Time – Three hours

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

1. Answer the following questions : $1 \times 6 = 6$

   (i) How many flip-flops are there in a flag register of 8085 Microprocessor ?

   (ii) What is opcode ?

   (iii) What is operand ?

   (iv) How many data lines are there in 8085 ?

   (v) How many address lines are there in 8086 ?

   (vi) What is Microprocessor ?

2. Answer the following questions : 2×5=10

(i) What is Micro-controller ?

(ii) What is Bus system ?

(iii) What is clock signal for Microprocessor ?

(iv) What are the meaning of MOV R_d, R_s ?

(v) What is the difference between :

LDA, XXXX

and STA, XXXX

3. Answer any *six* of the following questions :

Define : 5×6=30

(i) Instruction Register

(ii) General Purpose Register

(iii) Program Counter

(iv) Accumulator

(v) Flag Register

(vi) Control Block of Microprocessor

(vii) Interrupt Block of Microprocessor

(viii) Programmable Peripheral Interfacing Device

(ix) Stack Pointer.

4. Answer any *two* of the following questions :
10×2=20

(i) Draw the block diagram of 8085 microprocessor and describe.

(ii) Draw the block diagram of 8086 microprocessor and describe.

(iii) Write about address bus and data bus of 8085 microprocessor. How do address and data bus demultiplexed in this microprocessor ?
6+4=10

5. Answer any *one* of the following questions :
14×1=14

(i) Describe the operation to be performed by a microprocessor.

(ii) Describe the instruction set of a microprocessor with a special reference to 8085 microprocessor.