SB-282

Total No. of Pages : 2

Seat No.	

S.Y. B.Tech. (CSE) (Part - II) (Semester - III) (CBCS) (Revised) Examination, January - 2023
MICROPROCESSORS
Sub. Code : 73280

Day and Date : Monday, 30 - 01 - 2023 **Total Marks : 70**
Time : 10.30 a.m. to 1.00 p.m.

Instructions :
1) **Question 3a is Compuslory and solve any one question from Q.3b and Q.3c.**
2) **Question 6a is Compuslory and solve any one question from Q.6b and Q.6c.**
3) **Figures to the right indicate full marks.**

Q1) Solve any two Question.

a) Write a short note on classification of instruction based on functionality. **[6]**

b) Write a short note on following data transfer instructions related to 8085. **[6]**

i) MVI
ii) LDA
iii) PUSH

c) With a neat diagram explain 8051 Microcontroller. **[6]**

Q2) Solve any two Question.

a) Write a short note on any Three of the following multipurpose registers. **[6]**

i) Accumulator (AX)
ii) Base index (BX)
iii) Count (CX)
iv) Data (DX)

b) In context with data-addressing Modes, write a short note on any Two of the following. **[6]**

i) Register Addressing
ii) Immediate Addressisng
iii) Register Indirect Addressing

P.T.O.

c) Explain direct program memory addressing in context with program memory-addressing modes. **[6]**

Q3) a) With neat diagram explain machine language. **[6]**

b) With example explain LEA instruction and offset. **[5]**

OR

c) With example write a short note on register addition arithmetic instruction. **[5]**

Q4) Solve any two Question.

a) Write 8086 Instruction with example for:
   i) To Convert Positive number stored in AH register To Negative & Convert Negative Number Stored in AL register to Positive. **[4]**
   ii) Clear the contents of any register using logical instructions? **[2]**

b) Write 8086 program to find and store negister number from the list of 5 numbers. Using Test instruction? **[6]**

c) List and explain program control instructions? **[6]**

Q5) Solve any two Question.

a) Explain the functions of 8086 group of pins: **[6]**
   i) Address Bus
   ii) Bank Enable
   iii) Data Bus

b) Draw and Explain programming model for 80386? **[6]**

c) Draw and explain control register structure of 80386? **[6]**

Q6) a) List the features of Pentium Pro Microprocessor? **[6]**

b) Find the Segment start and end address if Base address is 10000000H and Limit is 0011FFH When G = 0 and G =1? **[5]**

OR

c) Explain Multicore Technology? **[5]**