BTech-CSE
End Semester Examination 2020
….. 4th *Semester*

Paper Name   Microprocessors (TCS403)

Time: 1 Hour   MM: 42

Note:
(i)   This question paper contains five questions. Attempt any three questions.
(ii)   Prepare Handwritten answer and at the Top of first page put Your Name, University Roll No, Father's Name, Subject Name, Subject Code and Date. Sign below each sheet. Scan the answer sheet (you can use freely available app like Camscanner) and submit within due time as per instructions. The link for submitting the answer sheet is at the end of the paper.

Q1.   (14 Marks)
Explain how does 8086 support pipelining? What will be value of conditional flags after execution of ADD AL, 85 H if value of AL = $(76)_8$

Q2.   (14 Marks)
Draw the instruction cycle of instruction JMP 2050.

Q3.   (14 Marks)
List the differences between 8253 and 8254.Explain the block diagram and control word format of 8254.

Q4.   (14 Marks)
Write a program in 8086 which sort elements of an array in descending order. Also show the steps.

Q5.   (14 Marks)

What is need of ADC and DAC? Write a program in 8085 which interfaces the ADC 0808 with microprocessor using analog inputs IN5. .Assume that port addresses of 8255 are: PA=80H,PB=81H,PC=82H and CR=83H.