M.Sc. Examinations 2020
Semester IV
Subject: ELECTRONICS
Paper: ELC - 495
(Practical)

Full Marks: 50   **Time: 3hrs.**

Candidates are required to give their answers in their own words as far as practicable.

Answer any one of the following:

1. Explain the guidelines for drawing a flow chart.
2. Discuss the advantages and limitations of using flow chart.
3. Describe the different steps are followed in programming technique.
4. Explain different addressing modes with examples.
5. Let the program memory location XX80H, the instruction MOV B,A (OP Code 47H) is stored while the accumulator content is FFH. Explain the execution of this instruction.
6. Discuss different time delay loops used in microprocessor programming.
7. Explain different types of subroutines used in microprocessor programming.
8. Write a program to transfer a block of data stored in memory locations F050H to FO5FH. The data are to be stored from location starting from F300H to F30FH in reverse order, and explain your logic.
9. Write a program to multiply two 8-bit numbers using shift and add method, and explain your logic.
10. Write a program to find the largest number in a given array of 10 elements. The array is stored in the memory from F200H onwards. Store the result at the end of the array, and explain your logic.
11. Write a program to arrange the 05 bytes of data in descending order, and explain your logic.
12. Explain the interface a latch and a buffer with 8085 in memory mapped I/O technique.