

Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

<u>Module-3</u>

- 5 a. Write a program to change a sequence of sixteen two byte numbers from ascending to descending order the numbers are stored in the data segment, store the new series at address starting from 6000 H. Use LIFO property of the stack. (08 Marks)
 - b. Briefly explain non maskable interrupt and maskable interrupt (INTR).

OR

- 6 a. Differentiate between macros and procedures.
 - b. Write a MACRO function:
 - (i) To read a character with echo
 - (ii) To display a character
 - (iii) To read a character without echo
 - (iv) To display a text message
 - (v) To read a string of characters from keyboard.

(10 Marks)

Module-4

7 a. Write a note on physical memory organization of 8086. (06 Marks)

- b. Draw the timing diagram to execute memory read operation in an inlet 8086 processor. (04 Marks)
 - c. Bring out the differences between minimum mode and maximum mode of 8086. (06 Marks)

OR

8 a. Explain the block schematic of 8255.(08 Marks)b. Write a program for seven segment display using 8255.(08 Marks)

<u>Module-5</u>

9 a. List the features of ADC 0808/0809 and write a flow chart for analog to digital conversion using ADC 0808. (08 Marks)

b. Write a program to rotate stepper motor by 360° in clockwise direction. (08 Marks)

OR

10 a. Explain the architecture of 8087 with the help of neat block diagram.(08 Marks)b. Briefly explain Timer 8253/8254 modes.(08 Marks)

(06 Marks)

(08 Marks)