MICROPROCESSOR - I
NOV - DEC 2009

Time : Three Hours Pages :- 02 **Max. Marks : 100**

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Student should note, no suppliment will be provided.
4. Answer **any two** question from each unit.
5. Assume suitable data wherever necessary.

UNIT - I

1. Explain in detail logical instructions of 8086 with examples. **10**

2. Define terms. BASE address, EFFECTIV address & PHYSICAL address. Explain the significance of all those in segmentation mechanism of 8086. **10**

3. Explain & differentiate BIOS & DOS interrupts. **10**

UNIT - II

4. Explain different services of INT 21H in detail with examples. **10**

5. Write a program in 8086 assembly language to generate delay of 20ms. (Assume frequency 10 MHz) **10**

6. Write a program in 8086 assembly language to compute factorial of given number using FAR procedure Also make use of PUBLIC & EXTERN directive. **10**

UNIT - III

7. Explain in detail communication between 8086 & 8259 when an interrupt occurs on INTR pin. (Assume that 8259 is configured in master / slave mode). **10**

8. Draw & explain configuration of 8086 in maximum mode. **10**

9. Explain all pins of 8086 that are available in minimum mode. **10**