

## METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to Osmania University) King Koti Road, Abids, Hyderabad, Telangana - 500 001

## Assignment - 1

## Short Answer Questions (write any five questions)

- 1. Name all of the general purpose registers in INTEL 80x86 families and some of their special functions.
- 2. What are assembler directives? How are they different from instructions?
- 3. Draw the write cycle timing diagram for 8086 minimum mode operation.
- 4. Bring out the differences between procedures and macros.
- 5. What are the functions of 8086 pinsa) DT/R b) DEN c) READY d) BHE e) TEST f) LOCK
- 6. What is the purpose of instruction Queue in 8086?
- 7. Brief the evolution of Intel x86 series microprocessor.
- 8. List the various operations of flag register in 8086 processor.
- 9. What is stack? Write its role in CALL instruction.

## Long Answer Questions (All are compulsory)

- 1. Draw and explain the architecture of 8086 Microprocessor.
- 2. Explain in detail 8086 memory segmentation.
- 3. Draw and explain minimum and maximum mode pin operations of 8086.
- 4. Explain various addressing modes of 8086 with example of each.
- 5. Explain the data transfer and branching instructions of 8086 with examples.
- 6. Explain the Arithmetic, logical and string manipulation instructions of 8086 with examples.