CT Inst. of

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (EE/EEE) (Sem.-5th)

MICROPROCESSORS AND INTERFACING

Subject Code : EE- 307 Paper ID : [A0416]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

l. Answer briefly:

- a) What is the word length of a microprocessor?
- b) What is the function of PUSH instruction in 8085?
- c) What is the use of 8086 instruction XCHG?
- d) Write 8086 assembly instruction which will perform the operations copy BP register contents to SP register and divide the AL register contents by 2 by using a shift instruction.
- e) What is the function of BIU of 8086 microprocessor?
- f) State advantages of queue of 8086 microprocessor.
- g) List the index registers of 8086 microprocessor.
- h) State function of AAA instruction of the 8086 microprocessor.
- i) State function of linker.
- j) List two features of 8086 microprocessor.

SECTION-B

- 2. Explain the architecture of microprocessor 8085.
- 3. How is pipelining implemented in 8086?
- 4. What is an assembler directive? Explain the follow with example:
 - a) PUBLIC
 - b) PROC
 - c) MACRO
 - d) DB
- 5. What are the various specifications of A/D convert
- 6. What are the various modes of 8259A?

SECTION-C

- 7. Discuss the different types of 8086 instructions with
- Briefly explain the structure of 8086 interrupt r vector table with a neat diagram.
- Explain with the internal block diagram of 8255, the modes and the control word formats.

