Code: 9A04602

B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2014/2015 MICROPROCESSORS & MICROCONTROLLERS

(Common to EEE, ECE, CSE, EIE and E.Con.E)

Time: 3 hours Max Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 (a) Explain memory addressing modes of 8086. Give an example for each addressing mode.
 - (b) What is the purpose of Trap flag? Discuss how debugging feature is provided with the help of Trap flag in 8086.
- Write an ALP in 8086 to find the largest and smallest of a set of 8-bit numbers.
- 3 (a) Explain need and importance of DMA.
 - (b) Discuss about static RAM and EPROM with reference to 8086.
- 4 (a) What are the different modes of 8255?
 - (b) Explain the 8255 interfacing to 8086 in mode 0.
- 5 (a) Explain about USB with necessary example and analysis.
 - (b) Give the voltage levels of RS232. Give two features of RS232.
- With a neat diagram explain the working principle of 8253.
- 7 (a) Write a program to load accumulator, DPH and DPL using 8051.
 - (b) What is subroutine or procedure?
- 8 (a) Explain the addressing modes of MCS-96.
 - (b) Clearly explain the Instruction set of MCS-96.
