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## B.Tech. COMPUTER SCIENCE AND ENGINEERING

## Term-End Examination

#### December, 2013

### **BICS-012 : MICROPROCESSOR**

Time : 3 hours

Maximum Marks : 70

**Note**: Attempt **any seven** questions. Each question carries **equal** marks.

- Discuss the addressing modes used in 8086 10 microprocessor with examples.
- 2. What is a flag register ? Discuss the use of each 10 flag bits of 8086 microprocessor.
- State the features of JMP instructions. Also discuss 10 different types of Jump permissible in 8086 microprocessor with examples.
- 4. (a) What do you mean by the term "Parameter Par Sing" in the context of Procedures ? 5x2=10
  - (b) What are the differences in functioning of the RET & RET n instructions ?
- 5. Discuss the interrupt structure of 8086 10 microprocessor. State the use of software interrupts.
- 6. With neat timing diagram, explain the interrupt 10 acknowledgement cycle of 8086 microprocessor.

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- 7. Write the control word for setting Port-A as an input Port and Port-B as an output port in Mode-1. Port C upper and Port C lower are used as control signals. Write instructions to find the status of the signal IBF<sub>A</sub> & OBF<sub>B</sub> in 8255A.
- 8. The input frequency to the timer chip 8254. Write 10 a program to generate a square wave of 1.5kHz using Timer 0.
- 9. Discuss the software and hardware features of 10 80386 microprocessor.
- Discuss the upgradations in Pentium Processor 10 over 80486 microprocessor.