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B.Tech.(CSE/Electronics & Computer Engg. / IT) (2011 Onwards)

(Sem.-4)

# MICROPROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING

Subject Code: BTCS-404 Paper ID: [A1186]

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

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

### **SECTION-A**

## 1. Write briefly:

- 1. Define Assembler.
- 2. A microprocessor is having 10 address buses. What is the maximum address that can be accessed by the microprocessor?
- 3. Classify the various memories present in 8085 microprocessor.
- 4. Name the different data transfer instructions in 8085 microprocessor.
- 5. Define the flag register of 8085 microprocessor.
- 6. Give any two advantages of Pentium processor over motorolla processor.
- 7. Write a programme to add 8B H and 6F H.
- 8. What do you understand by opcode?
- 9. Define synchronous buses present in 8085 microprocessor.

10. What is DMA?

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### **SECTION-B**

- 2. Give the classification of microprocessors based on architecture.
- 3. Draw the architecture of 8085 microprocessor.
- 4. Explain the various interrupts present in 8085 microprocessor. Also mention their priorities.
- 5. List the various addressing modes present in 8085 microprocessor.
- 6. Write a programme for BCD to Binary conversion of four bit data.

# **SECTION-C**

- 7. Explain 8255 programmable peripheral interfaces. Also show the interfacing of following:
  - a) Keyboard
  - b) Seven segment LED
- 8. Explain the architecture and pin diagram of 8086 microprocessor.
- 9. Draw and explain the timing diagram of memory read and write instruction machine cycle.

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