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Roll No. Total No. of Pages : 02 Total No. of Questions : 09 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 :** SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks 1. each. SECTION-B contains FIVE questions carrying FIVE marks each and students 2. has to attempt any FOUR questions. 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

## SECTION-A

- l. Write short notes on
  - a. Define Interpreter.
  - b. A microprocessor is having 10 data buses. How much memory can it access?
  - c. List different types of memories in 8085 microprocessor. Also define them.
  - d. Explain the status register of 8085 microprocessor.
  - e. Write a programme to subtract 97H and 65H.
  - f. Define operand.
  - g. Name the various logical operators present in 8085 microprocessor.
  - h. State the main advantage of 8086 over 8085 microprocessor.
  - i. Give the input combinations required to operate a stepper motor.
  - j. Define asynchronous buses in 8085 microprocessor.

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### SECTION-B

- 2. Explain the various types of microprocessors based on architecture.
- 3. Draw the architecture of 8086 microprocessor.
- 4. What do you understand by Subroutine? Also explain nesting.
- 5. Explain in detail the various types of registers present in 8085 microprocessor.
- 6. Write the instructions to load 65H in register C and 92H in accumulator A. Display the number 65H at port 0 and 92H at port 1.

# **SECTION-C**

- 7. Draw and explain the timing diagram for execution of IN and OUT instruction in 8085 microprocessor.
- 8. Explain the architecture and pin diagram of 8085 microprocessor.
- 9. What is 8255 programmable peripheral interface? Show the interfacing of following :

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- a. Seven Segment LED
- b. Keyboard