

NAME \_\_\_\_\_

ROLLNO \_\_\_\_\_

**2008-ANNA UNIVERSITY**  
**B.E/B.TECH DEGREE EXAMINATION**  
**MICROPROCESSORS AND MICROCONTROLLERS**  
**(COMPUTER SCIENCE&ENGINEERING)**

DECE-2008

TIME-3 HOUR  
MARKS-100

ANSWER ALL QUESTIONS.

**PART A - ( 10 \* 2 = 20 MARKS)**

- 1.List out the function of Accumulator.
- 2.What do you mean by Assembler?
- 3.What do you mean by Non Maskable Interrupt?
- 4.How do you pass parameters to Macros?
- 5.What is the function of Bus Interface Unit?
- 6.List out the Segment Registers of 8086.
- 7.List out three modes of Data Transmission.
- 8.What is the use of IRR(Interrupt Request Register)?
- 9.What do you mean by Indirect Addressing Mode?
- 10.What is the function of DPTR register?

**PART B - ( 5 \* 16 = 80 MARKS)**

- 11.a.(i).Write a program to convert Binary number to BCD number and explain.  
(ii).Draw the block diagram of 8085 microprocessor and explain.  
(Or)
- 11.b.(i).Write BCD and Binary code Conversion Program and explain.  
(ii).Explain the instruction set of 8085.
- 12.a.(i).Draw and explain the flag register of 8086 in brief.  
(ii).Explain the addressing modes of 8086 with example.  
(Or)
- 12.b.(i).Write a short notes on Interrupts and Interrupt service routines.  
(ii).Explain the instruction set of 8086.
- 13.a.(i).Draw the architectural block diagram of 8086.  
(ii).Explain the minimum mode operation of 8086.  
(Or)
- 13.b.(i).Write notes on addressing Input/Output Devices.  
(ii) Explain the Maximum mode operation of 8086.
- 14.(a). Draw the block diagram of 8257 and explain the functions of each block.  
(Or)

14.(b).Draw the block diagram of 8279 and explain the function of each block.

15.a.(i).Write a short notes on interrupt of 8051.

(ii).Explain the instruction set of 8051.

(Or)

15.b.Explain the architecture of 8051 with its diagram.

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