

**C 40959**

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Name \_\_\_\_\_

Reg. \_\_\_\_\_

**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION  
APRIL 2013**

IT/CS 09 406/PT CS 09 405—MICROPROCESSOR BASED DESIGN

(2009 Scheme)

[Regular/Supplementary/Improvement]

Time : Three Hours

Maximum : 70 Marks

**Part A**

*Answer all questions.*

1. What is the function of clock generator ?
2. Differentiate between minimum and maximum mode of operation of 8086.
3. What is the function of the instruction LEA ?
4. What are the read and write cycle timing of DRAM ?
5. What is the function of ISR ?

(5 × 2 = 10 marks)

**Part B**

*Answer any four questions.*

1. Explain about MODEM.
2. Write a program to find the factorial of a given number.
3. Draw and explain the EPROM interface of 8086 system.
4. How a data is transferred from one device to another using VESABM ?
5. How a keyboard in interfacing in 8086 system ?
6. Explain about OCW of 8259.

(4 × 5 = 20 marks)

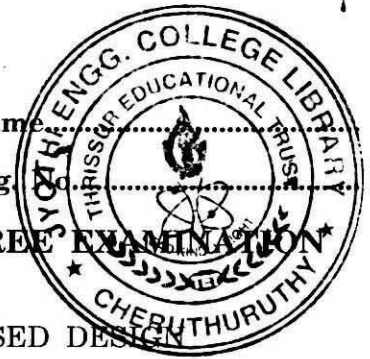
**Part C**

1. Discuss in detail about operating system and parallel interface of a PC system.

*Or*

2. Describe the features of 8086, 80286, 80486 and pentium systems.

Turn over



3. What is the function of the following instructions ?

LOOPE/LOOPZ, STI, LOCK, SCAS and RCR.

Or

4. Write a program to arrange N numbers in descending order.

5. Explain the memory interface of 80486 system.

Or

6. Describe the various modes of operation of timer.

7. Explain the different modes of operation of DMA controller.

Or

8. Explain the working of ISA Bus.

(4 × 10 = 40 marks)