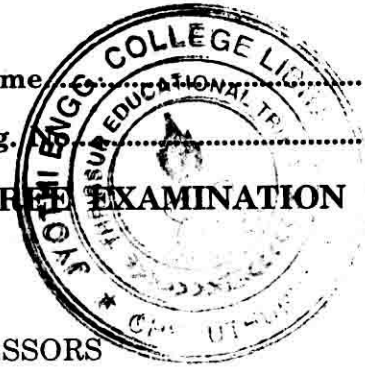


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Name

Reg.



**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
APRIL 2014**

(2009 Scheme)

AI 09 404—INTRODUCTION TO MICROPROCESSORS

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What is the function of address bus, data bus and control bus of 8085 processor.
2. Using logical operations write a program to find the presence of a BCD number 3 in the given data.
3. What is the purpose of Directives in 8086 Assembler ?
4. What are requirements to be met while interfacing I/O devices to microprocessor ?
5. What is the function of instruction LDAX B and X LAT in 8085 ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Explain the Interrupt structure of 8085.
7. Write a program to show how many numbers are greater than 20 in a given array of 10 numbers.
8. What is the need for memory segmentation ? Explain its features.
9. Explain any two modes of 8253 timer ?
10. Explain the working of Analog to Digital converter.
11. Explain about I/O mapped I/O and memory mapped I/O.

(4 × 5 = 20 marks)

Part C

12. Explain about working of 8085 microprocessor.
- Or*
13. (a) Explain the addressing modes of 8085.
(b) Differentiate between microprocessor and microcomputer.

(7 + 3 = 10 marks)

14. Write a program to count the number of even numbers and odd numbers in a given array of 20 numbers.

Or

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

Turn over

16. Describe the block diagram of 8086 processor.

Or

17. Discuss briefly the various addressing modes of 8086.

18. Discuss the working of 8279.

Or

19. Describe the operation of 8255.

(4 × 10 = 40 marks)