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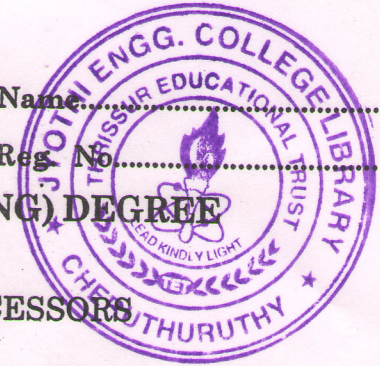
Name.....

Reg. No.....

**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2011**

AI 09 404—INTRODUCTION TO MICROPROCESSORS

(2009 Admissions)



Time : Three Hours

Maximum : 70 Marks

Part A

1. What are the addressing modes of 8085 ?
2. Write a program to generate a time delay of 1 m. sec.
3. What is the function of BIV and EV.
4. What is meant by programmable one shot in 8253 timer ?
5. What is pipelining ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Explain how a DMA transfer is carried out in 8085.
7. Write a program to multiply two 8 bit numbers.
8. Explain about memory segmentation in 8086.
9. Explain the mode 0 operation of 8255 with an example.
10. Explain the principle behind A/D converter.
11. Explain about Assemblers.

(4 × 5 = 20 marks)

Part C

12. Describe the architecture of 8085 microprocessor.

Or

13. Discuss the memory organisation of a microprocessor and also explain how I/O devices are interfaced with the microprocessor.

14. Write a program to convert a binary number to a BCD number.

Or

15. Write a program to find the average of N numbers.

16. Explain the addressing modes of 8086.

Or

17. Discuss about the signals present in 8086 processor.

18. Describe the operation of 8259.

Or

19. Explain how keyboard/display controller works.

(4 × 10 = 40 marks)