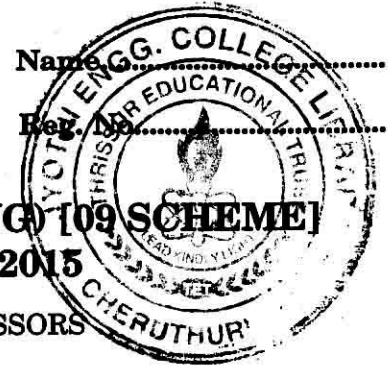


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**FOURTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME]
DEGREE EXAMINATION, APRIL 2015**

AI 09 404 – INTRODUCTION TO MICROPROCESSORS

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Why DMA is required in a microprocessor system?
2. Write a program to add two 16-bit numbers.
3. What happens to the queue in when jump instruction is executed?
4. Write a program to set PC3 bit using BSR mode of 8255.
5. Why SOC and EOC signals are essential in ADC?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Differentiate between memory mapped I/O and I/O mapped I/O.
7. Write a program to generate a delay of 1 msec using 8085.
8. Interface a DAC to a processor.
9. Explain about pipelining.
10. Explain about MASM.
11. Explain about interrupts in a microprocessor.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. Describe the organisation of 8085.

Or

13. (a) Explain the addressing modes of 8085.
(b) Write a note on the memory organisation.

(6 + 4 = 10 marks)

Turn over

14. Write a program to arrange 20 numbers in descending order.

Or

15. (a) Write a program to convert hexadecimal to ACCII.

(b) Write a program to count the number of 1's in the given data.

(5 + 5 = 10 marks)

16. Discuss the minimum mode of operation of 8086.

Or

17. Explain the addressing modes of 8086 with an example.

18. Describe the working of 8255.

Or

19. Discuss briefly the operation of 8279.

[4 × 10 = 40 marks]