



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

SECOND SEMESTER – APRIL 2015

CA 2806 - MICROPROCESSOR AND ITS APPLICATIONS

Date : 23/04/2015

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

PART-A

Answer ALL Questions

10 X 2=20

1. List the types of microprocessor
2. List the program development tools.
3. Define Macro.
4. Mention the flags of flag register.
5. What is the response of an interrupt by 8086 ?
6. What are registers of priority interrupt controller?
7. What is an op amp? List its applications.
8. Define DMA.
9. What is a co processor?
10. Differentiate microcontroller and microprocessor.

PART-B

Answer ALL Questions

5 X 8=40

- 11.a.) Explain the program development tools.
(or)
b.) Write short notes on the addressing modes of 8086.
- 12.a.) Explain the shift and rotate instructions with examples.
(or)
b.) Explain any eight assembler directives with example.
- 13.a.) Write short notes on trouble shooting.
(or)
b.) Illustrate the operation of priority interrupt controller.
- 14.a.) Explain the key board interface with necessary diagram.
(or)
b.) Explain the registers of DMA.
- 15.a.) Discuss features of Via C7 processor.
(or)
b.) Write short notes on EDA tools.

PART-C

Answer any TWO Questions

2 X 20=40

16. With neat diagram explain the components of 8086.
17. a.) Explain the string instructions with example.
b.) Write short notes on the following
 - i. sources and types of interrupt. (6)
 - ii. Interrupt vector table. (4)
- 18.a.) Discuss the following
 - i. Digital to Analog convertor.
 - ii. Stepper motor interface.
b.) Illustrate the math Co processor functions with necessary diagram.
