



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

SECOND SEMESTER – APRIL 2018

CA 2806- MICROPROCESSOR AND ITS APPLICATIONS

Date: 23-04-2018
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL Questions:

10*2=20

1. Define microprocessor. Mention any four of its applications.
2. What are addressing modes? List its types.
3. List the flag and processor control instructions.
4. Differentiate macro and procedure.
5. What is interrupt vector table?
6. List the different modes of operation of programmable timer.
7. Define DMA. List any four of its registers.
8. Differentiate static and dynamic RAM.
9. State any four features of VIA C7 processor.
10. Define microcontroller. Mention any two of its features.

PART-B

Answer ALL Questions:

5*8=40

11.a.) Explain the program development tools.

(or)

b.) Illustrate the structure and operations of micro computer.

12.a.) Explain the shift and rotate instructions with examples.

(or)

b.) Illustrate the use of MACRO with suitable example.

13.a.) Write short notes on trouble shooting.

(or)

b.) Explain the types of interrupt.

14.a.) With necessary diagram explain the microcomputer based processor control system.

(or)

b.) Explain DRAM with neat diagram.

15.a.) Illustrate the addressing modes of 8051 with example.

(or)

b.) Write short note on EDA tools.

PART-C

Answer any TWO Questions:

2*20=40

16. With neat diagram, explain the bus interface unit and the execution unit of 8086.

17.a.) Explain any ten assembler directives with example.

b.) Describe the operation of priority interrupt controller.

18.a.) Discuss the following

i. Digital to Analog convertor.

ii. key board interfacing.

b.) Illustrate the functioning of Math Co – processor with necessary diagrams

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