



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – PHYSICS

SECOND SEMESTER – APRIL 2019

PH 2807– MICROPROCESSORS AND MICRO CONTROLLERS

Date: 13-04-2019
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART - A

Answer any **FOUR** questions

(4×10=40)

1. Explain the various conditional branch instructions in μ P8086.
2. Explain the various forms of the LOOP instructions of μ P8086.
3. With an example explain the arithmetic instructions in μ P8086.
4. Explain with example the rotate instructions in μ C8051.
5. Write a short note on the register banks in μ C8051.
6. What is PSW? Explain the PSW in μ C8051.
7. Write a note on the control flags of μ P8086.
8. Write detailed notes on all the string manipulating instructions of μ P8086.

PART - B

Answer any **THREE** questions

(3×20=60)

9. Explain the various modes of addressing of data in μ P8086.
10. Write a note on the DMA controller.
11. With a neat block diagram of the internal architecture of μ C8051.
12. With a neat diagram, discuss the internal architecture of μ P8086.
13. With three examples each, explain the modes of addressing of data in μ P8051.
14. With a block diagram explain the functioning of the interrupt controller 8259A.

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