

MAY 2016

P/ID 17505/PCASE

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Explain the concept of Structured Programming and Pseudo code using example.
2. Discuss on repeat-until programs.
3. Write an assembly language program to move a string from one location to another in memory and explain.
4. Describe the concept of Macros with an example.
5. Explain the importance of 8086 Interrupts.
6. Discuss on the D/A converter operation, Interfacing and Applications.
7. Describe the features of Programmable Parallel ports.
8. Explain the features of Intel 80386 Microprocessor.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain the Standard Programming structures used in Assembly language programming.
10. List out the purpose of various Data transfer, Bit manipulation and Program execution transfer instructions.
11. Write the descriptions of any ten instructions with example.
12. Discuss on any five Assembler directives with its purpose.
13. Describe the organization of 8086 based Microcomputer system.
14. Explain the method of troubleshooting a simple 8086-based Microcomputer.
15. Discuss on the organization of 8259A Priority Interrupt controller.
16. Describe the way of interfacing a Microprocessor to Keyboards.
17. Explain the features of DMA data transfer.
18. Discuss on the method of interfacing and refreshing dynamic RAMs.