

DECEMBER 2014

P/ID 17505/PCASE

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Write on the standard programming structures.
2. Give the 8086 assembly language program for finding the average of two numbers.
3. Explain about passing parameters using pointers.
4. Write on 8086 bus activities during a read machine cycle.
5. Discuss on simple interrupt data input.
6. Write about constructing and sending 8255A control words.
7. Explain on temperature sensors.
8. Write an overview on coprocessors.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Discuss about assembly language programming development tools.
10. Write on instruction timing and delay loops.

11. Explain about 8086 string instructions.
12. Draw the block diagram and explain the architecture of 8086 processor.
13. Discuss in detail on software-programmable time/counter.
14. Write on interfacing a microprocessor to keyboards.
15. Explain on A/D converter specifications, types and interfacing.
16. Write about microprocessor-based industrial process-control system.
17. Discuss on computer-based design and development tools.
18. Explain the architecture of Intel 80386.