

MAY 2015

P/ID 17457/RCG/PCAD

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Explain the features of a linker.
Or
(b) Explain the conditional flags of 8086.
2. (a) Explain how parameters are passed to macros.
Or
(b) Explain the multiply and divide instructions of 8086.
3. (a) Explain the functions of a logic analyzer.
Or
(b) Explain the priority of 8086 interrupts.
4. (a) Briefly explain the different methods of parallel data transfer.
Or
(b) Explain the working of a simple D/A converter.

5. (a) Explain the two-way set associative cache system.

Or

- (b) Explain the various scheduling methods used in multiuser operating systems.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Discuss about the various steps in program development.
7. Explain the different methods of passing parameters to and from procedures.
8. Explain the various logical instructions of 8086 with examples.
9. Explain the steps in troubleshooting a simple 8086-based microcomputer.
10. Discuss about the various types of interrupts of 8086.
11. Explain the internal architecture of 8255 with a neat block diagram.
12. Explain any two types of A/D converters.
13. Draw the internal block diagram of 8087 coprocessor and explain the functions of each unit in it.

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