

MAY 2013

P/ID 17505/PCASE

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. What is the difference between a CMP instruction and a CMPS instruction in 8086?
2. List the string instruction of 8086.
3. What are assembler directives? State any five assembler directives of 8086 and give their meaning.
4. A interrupt with vector (75) to the base 10 hs its service routine written in memory address location 12345 to the base M. show how this is loaded in the interrupt vector table.
5. Discuss Analog interface in detail.
6. Explain EDA Tools.
7. What is DMA? Explain with neat diagram.
8. Write short notes on procedures.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain any four standard programs structures used in 8086 with examples.
10. What is Macro? With example explain any five feature of a macro.
11. Write an assembly language program for 8086 to find from a character string whether the alphabet 'A' occurs. If its occurs store FFFF in AX and if not store 0000 in Ax.
12. Describe with a diagram the architecture of the execution unit of 8086.
13. Explain how handshaking is done. Explain any three handshaking signals used in 8086.
14. Describe how a DRAM is constructed. Give its advantages and disadvantages over SRAM.
15. Discuss :
 - (a) Co-processor
 - (b) Cache memory with neat diagram.

16. Write short notes on :
 - (a) While-do structure
 - (b) Repeat-until.
 17. What is trouble shooting? How it can be done? Explain.
 18. Briefly explain the following :
 - (a) 80386 microprocessors
 - (b) Interrupt controller.
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