

OCTOBER 2013

P/ID 17505/PCASE

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. State and explain any two development tools available for writing assembly language programs for 8086.
2. What is meant by macro? How to implement macro in microprocessor?
3. Explain Assembler Directives.
4. A interrupt with vector (75) to the base 10hs 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 Interrupt Controller in detail.
6. State the advantages and disadvantages of handshaking over simple parallel I/O.

7. What is cache memory? Explain its characteristics.
8. Explain while do structure with example.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Write an assembly language program for 8086 to convert a four digit BCD number stored in the BX register into its binary equivalent and store the result in the DX register.
10. Discuss:
 - (a) Strings
 - (b) Procedures.
11. Describe with a block diagram the architecture of any one programmable timer/counter.
12. Explain with the suitable diagram how an ADC is interfaced with 8086.
13. Explain how handshaking is done. Explain any three kinds of handshaking signals used in 8086.

2 **P/ID 17505/PCASE**

14. Explain how an I/O Co-processor is used with 8080. What are the uses of an I/O Co-processor.
 15. Discuss DMA with neat diagram.
 16. Illustrate the development steps involved in 8086 Assembly Language Programming.
 17. Discuss about analog interfacing.
 18. Describe the following:
 - (a) 80286 microprocessors
 - (b) DRAMS.
-