

MAY 2011

P/ID 17457/RCG/PCAD

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Explain delay loops and jumps with example.

Or

- (b) Discuss the multiplication instructions of 8086.

2. (a) Define the following assembler directives :

(i) Assume

(ii) DW

(iii) END

(iv) ENDP.

Or

- (b) What is FAR procedure? Explain with example.

3. (a) Discuss the parallel printer interface.

Or

- (b) Write a program for printer driver.

4. (a) Discuss the initialization for handshake output in 8255A.

Or

- (b) Explain about process control system based on 8086.

5. (a) How 8237 is initialized? Explain in detail.

Or

- (b) Draw the diagram of DMA and explain with timing diagram.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Discuss the arithmetic instructions of 80286 with examples.

7. Discuss shift and rotate instructions with example.

2 P/ID 17457/RCG/PCAD

8. Write assembly language program for comparing strings.
 9. Write a program for addition using stack.
 10. What are the steps involved in troubleshooting a microcomputer? Explain in detail.
 11. Explain the interfacing a microcomputer with stepper motor.
 12. Discuss the functions of 8255A programmable parallel port device with internal block diagram.
 13. Explain the memory management scheme of 80286.
-

3 P/ID 17457/RCG/PCAD