Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1.   What is Data representation?

2.   Define complements.

3.   What is a Bus?

4.   What is micro operations?

5.   What is RISC?

6.   Write any two advantages of stack organization.

7.   What is vector processing?

8.   What is Instruction set?

9.   How to convert ASCII to BCD conversion?

10.   What is Interrupt?

11.   What is DMA?

12.   What are the features of microprocessors?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Discuss about floating point number representations.

14. Explain various addressing modes with examples.

15. Discuss about program control.

16. Explain Binary to ASCII conversion with examples.

17. Discuss BCD Addition and subtraction with examples.

18. Explain about 8085 vectored Interrupts with examples.

19. Discuss 8255 A programmable peripheral interface with examples.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions, each in 500 words.

20. Discuss about various Data types representations with suitable examples.

21. Discuss about various instruction formats with examples.

22. Explain block diagram of 8085 microprocessors architecture.

23. Explain 8085 interrupts with examples.

24. Briefly explain 8257 DMA controller with a block diagram.

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