1.What is instruction cycle?

2.What do you mean by Data and Address Bus?

3.Define DMA.

4.Explain about SAP2.

5.What do you mean by Operation Code?

6.Define Instruction Format.

7.What do you mean by Shift Microoperations.

8.Define CLSC architecture.

9.What do you mean by Memory Hierarchy?

10.Define Data Dependency.

**Group- “B”**

Short Answers Question

Attempt any Five Questions

11.Differentiate between Microprocessor and Computer Architecture.

12.Discuss the Intel 8085 Instructions.

13.Explain the Arithmetic Microoperations with example.

14.Discuss the Symbolic Microinstructions.

15.Explain the Control Unit of Basic Computer.

16.Explain I/O Processor with example.

**Group “C”**

Long Answer Question.

Attempt any three questions.

17.Explain the memory mapping function with example.

18.Multiply -7×8 using Booth multiplication algorithm.

19.Explain with example of Arithmetic Pipeline.

20. Write an assembly language program that add two 16 bits number and store result in memory location 3200H.

**Group “D”**

Comprehensive Questions

Attempt all questions.

21.Explain the main purpose of addressing mode techniques use in the computers? Explain the different types of addressing modes.

22.Differentiate between restoring and non-restoring division. Divide 9/4 using non-restoring division.