Group ” A”

Brief Answer Questions:

1. Define the terms microprocessor and computer Architecture.

2. If A=101101 , what is the value of A after performing circular shift Right?

3. Define term operand.

5. List the registers of Intel 8085 microprocessor.

6. Define Associative memory.

7. Explain left logical shift.

8. Draw the Block Diagram of microprocessor.

9. What is memory space and address space?

10. Define general register CPU organization.

Group “B”

Short Answer Questions(Attempt any 5 questions):

11. Explain about Hardware implementation of logic micro operation with its functional table.

12. Why we need IOP? Explain

13. Explain about Hardwired control unit of basic computers.

14. List Arithmetic instruction of Intel 8085 microprocessor.

15. Define cache mapping. List the types of cache mapping techniques,

16.A non pipeline system takes 150 ns to process a task. The same task can be processed in eight-segment pipeline with clock cycle time of 14ns. Determine the speed up ratio of pipeline for 1000 tasks.

Group “C”

Long Answer Questions(Attempt any 3):

17. Why we need addressing modes? explain any 5 types of addressing modes in details.

18.Why we need priority interrupt? Explain serial priority interrupt method with suitable block diagram.

19. Perform (-19)\*(+13) by booth multiplication algorithm.

20. Write an assembly language program that subtract two 16 bits number and store result in memory location 2500H.

Group “D”

Comprehensive answer questions:

21. Draw the flowchart of Non-restoring division algorithm. Perform 11/3 by using Non-restoring division algorithm.

22. Draw the architecture of Intel 8085 microprocessor and explain each part in details.