QUESTION BANK

Subject Name: Digital Electronics & Microprocessor   *prepared by Deepika Sarkar*

1. What are basic properties of Boolean algebra?

2. State the associative property of boolean algebra.

3.   State De Morgan's theorem.

4. Reduce A'B'C' + A'BC' + A'BC

5. . Reduce AB + (AC)' + AB'C(AB + C)

6. Define duality property.

7. Simplify the following expression

8. What is a karnaugh map? State the limitations of karnaugh map.

9.   Define Half adder and full adder.

10. Define multiplexer?

11. Define Flip flop, What are the different types of flip-flop?

12. Define race around condition.

13. What is edge-triggered flip-flop?

14. What is a master-slave flip-flop?

15. Define shift registers, What are the different types of shift type?

16. Explain the flip-flop excitation tables for T flip-flop.

17. Give the comparison between synchronous & Asynchronous sequential circuits?

18. Name the various flag bits available in 8085 microprocessor.

19. When the Ready signal of 8085 is sampled by the processor?

20. What is the need of ALE signal in 8085?

21. Why multiplexing is done in 8085?

22. What is the function of NOP instruction?

23. Draw the block diagram of 8085 microprocessor and explain.

24. Write an assembly language program to add two 2-digits BCD Number

25. What are the applications of 8253?

26. Define interrupts.

27. Define DMA process.