

## **MICROPROCESSOR AND INTERFACING**

1. Explain Components of a Microprocessor.
2. Explain Address, Data and Control Buses of 8085 microprocessor.
3. Explain 8085 Microprocessor Architecture.
4. Explain 8085 Pins & Draw Pin Diagram.
5. Explain Demultiplexing in 8085.
6. Explain Generation of Control Signals.
7. Explain 8085 Programming Model and Flag Register.
8. Explain various addressing modes of 8085 microprocessor.
9. Define Instruction Cycle, Machine Cycles, T-State.
10. Define: (1) Bus (2) Opcode (3) operand.
11. Explain instruction classification for 8085 with example.
12. Draw timing diagram of memory read cycle.
13. Draw & Explain timing diagram of Memory write cycle.
14. Draw timing diagram of I/O read cycle.
15. Draw and explain timing diagram of MOV A, C.
16. Explain following instruction (1) STA 2000 (2) IN 80 (3) LDAX B (4) LHLD 2000 (5) XCHG (6) ANI F0h (7) PUSH (8) POP (9) HLT (10) NOP (11) ADI (12) MVI (13) CMA (14) STAX B (15) RAL & RLC (16) DAA (17) LDA 8000 H (18) ORA B.
17. Explain JMP, CALL and RET instructions in 8085.
18. Explain Interrupts in 8085. List hardware interrupts of 8085.
19. Explain subroutine with suitable example.
20. Draw and explain RIM & SIM instruction format.
21. Difference between 8085 and 8086 microprocessor.
22. Draw and explain the block diagram of the programmable peripheral interface 8255A.
23. Draw and explain the block diagram of the programmable interrupt controller 8259A.
24. Draw block diagram of 8086 microprocessor.
25. List and explain the segment registers of 8086 microprocessor.
26. Explain Pin diagram of 8086 in Minimum & Maximum mode.
27. Draw block diagram of 80286 microprocessor.
28. Draw block diagram of 80386 microprocessor.
29. Explain format of the descriptor in 80386 with diagram.
30. Assembly language Programs, Delay Calculation Examples, Conversion programs, Delay and Counter programs.