



## SECTION-B

11. Explain in detail differences between hardwired and micro-programmed control unit design.
12. Create the circuit diagram of full adder using two half adders.
13. Explain parallel processing. What are the challenges in achieving parallel processing?
14. Differentiate between primary and secondary memory with examples.
15. Write short note on I/O interfaces.

## SECTION-C

16. Explain various stages in instruction pipelining. Discuss in detail methods to handle control hazards.
17. Explain cache mapping techniques viz, Direct, associative and Set-Associative mapping.
18. Explain addressing modes in 8085 microprocessor with examples:
  - a. Immediate addressing mode
  - b. Register addressing mode
  - c. Direct addressing mode
  - d. Register indirect addressing mode
  - e. Implied addressing mode

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