

- 2 (a) Explain Data flow graph and sequencing graph's with the help of an appropriate example. 8
- (b) What is optimization ? Explain the optimization techniques for digital circuits. 8

UNIT - III

- 3 (a) Describe Resources and constraints in detail. 6
- (b) Explain latercy constrained scheduling and resource constrained scheduling with the help of an example. 10

OR

- 3 (a) What is synchronization problem ? Explain with the help of an example.. 6
- (b) Explain Integer linear programming model in detail. 10

UNIT - IV

- 4 (a) Write the algorithm for exact logic minimization with an example. 6
- (b) Define logic optimization principles with necessary definitions also write a short note on unate functions. 10

OR

- 4 (a) Explain sharing and Binding for resource dominated circuits in detail also write down left edge algorithm. 10
- (b) Write short note on positional cube notations. 6

UNIT - V

- 5 (a) Define floor planning. Write goals and objectives of floor planning. 8



- (b) What is global routing ? Explain the methods used for global routing in detail.

8

OR

5 Write short notes on :

- (a) Design Rule Checking.

6

- (b) Channel Routing algorithm.

5

- (c) Interactive improvement algorithms.

5

