Unit - I

1. a) Define Real Time System (RTS). (4)

   b) What are the characteristics of R Time System? (4)

   c) What are the characteristics of Real Time System control? (8)

OR

1. a) Explain with example the various timing constrains. (8)

   b) Differentiate, with example, soft & hard RTS. (8)

Unit - II

2. a) What are the functional parameters of Job? Explain. (8)

   b) Explain briefly : (8)

      i) Dynamic v/s static system

      ii) Offline scheduling v/s online scheduling

OR

2. a) Explain weighted round robin approach for RTS. (8)

   b) Explain briefly Data Dependency & its type. (8)

Unit - III

3. Explain following :
   a) Priority driven Approach for Real Time Scheduling. (4)
   b) General structure of cyclic scheduler. (4)
   c) Rate monotonic (RM) algorithm. (4)
   d) Advantages of clock driven scheduling. (4)

OR

3. Explain following :
   a) Fixed Priority v/s Dynamic Priority scheduling. (4)
   b) Scheduling spordic jobs. (4)
   c) Deadline monotonic (DM) algorithm. (4)
   d) Disadvantages of clock driven scheduling. (4)

Unit - IV

4. a) What is a periodic task scheduling? Explain the assumption for a periodic task scheduling. (8)
   b) What is flexible application? Explain. (8)

OR

4. a) Explain following : (4×2=8)
      i) Differ server
      ii) Simple spordic server
   b) Explain scheduling approaches for periodic task. (8)

Unit - V

5. Explain following :
   a) Basic Priority celling protocol. (4)
   b) Concurrent access of Data objects. (4)
   c) Priority inheritance protocol for task execution. (4)
   d) Priority inversion and how it is related to critical section. (4)

OR

5. a) Differentiate between basic Priority celling protocol & priority inheritance protocol. (8)
   b) Give advantages and disadvantages of priority inheritance protocol. (8)