Silver Oak College of Engineering & Technology

B.E. Semester-III (CE/IT)

Subject : Data Structures (2130702)

Questions Pool for Queue (Unit-2)

1. What is queue? Explain in detail.
2. Write sub algorithms for insertion & deletion process in simple queue.
3. What are the limitations of Queue? Explain the method to overcome these limitations.

OR

What is circular queue? What are the advantages of circular queue with compare to simple queue?
4. Write sub algorithms for insertion & deletion process in circular queue.
5. Write short notes on Deque & Priority queue including implementation procedures for the both.
6. Write difference between followings:
   (1) Simple queue & circular queue.
   (2) Stack & queue.
   (3) Simple queue & deque.
7. Write and explain applications of queue.
8. Consider a queue having 6 cells with initial position as mentioned below:
   __A,B__,__ Front is pointing to Element A and Rear is pointing to B.
   Show following operations on this simple queue:
   1. Insert C
   2. Insert D
   3. Delete
   4. Insert E
   5. Insert F
   6. Delete 2 elements
      Also show all the operations considering the same as a circular queue.

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