Assignment 4

Q.A. Answer the following questions in one or two lines :

- 1. What is Queue.
- 2. Define the term: Priority Queue. List its types.
- 3. Define Double ended Queue / Dequeue.
- 4. 'Queue full condition in a linear queue necessary implies that there is no free space in array'. State True / False.
- 5. What are different types of queue?
- 6. List any two applications of queue in Computer.
- 7. List any two applications of queue in real life.

Q. B. Answer the following questions:

- 1. Write a 'C' function to add and delete element from Linear Queue. (Static Implementation)
- 2. Write a 'C' function to add and delete element from Linear Queue. (Dynamic Implementation)
- 3. Write a function for adding and deleting elements from a circular queue.
- 4. Write a function to add element in priority queue in which elements are stored in sorted order. (Ascending)
- 5. Differentiate between stack and queue.
- 6. What is circular queue and explain the need for a circular queue.