**Question 1**

A linked list implementing a Queue ADT can be used to implement order of processes. A Dynamic Array can be used as well. And A Doubly Linked list implementing Queue ADT can be used as well.

**Question 2**

A Method to Queue a process for execution after it finished using its timeslot. Another Method to get the first process in the Queue waiting with all the processes with waiting state.

**Question 3**

Queue()

Dynamic Array O(1)

Linked List O(n)

Doubly Linked List O(1)

DeQueue()

Dynamic Array O(n)

Linked List O(1)

Doubly Linked List O(1)

Hence Doubly linked list is efficient to implement in theory.

**Question 4**

We can simulate it by having a loop for which 3 out of 4 cases are calls to handle the processes in the queue and 1 out of 4 is case is to function which generates new processes. We can do this by generating random number ranging from 1 to 4

**Question 5**

The correct way to simulate this is creating random ints in a random range signifying milliseconds representing time required by the process 25% of times and subtracting the predefined quantum from these integers and queueing them again 75% of the times.

**Question 6**

If Everything earlier mentioned is done correctly in the code, it has to be pretty accurate and not be missing anything.