

Polling Quiz MCQs

1. Which of the following data structure is used to implement breadth first search traversal in a tree?

- A. stack
- B. array
- C. queue
- D. linked list

Answer: C

2. Which of the following is true about linked list implementation of queue?

- A. For enqueue operation if we used `add_last()` then for dequeue operation we have to use `delete_first()`.
- B. For enqueue operation if we used `add_first()` then for dequeue operation we have to use `delete_last()`.
- C. For enqueue operation if we used `add_last()` then for dequeue operation we have to use `delete_last()`.
- D. Both Options 1 & 2

Answer: D

3. What is the time complexity of enqueue and dequeue operations

- A. $O(n)$
- B. $O(\log n)$
- C. $O(1)$
- D. None of the above

Answer: C

4. FCFS scheduling algorithm can be implemented by using ____

- A. array
- B. stack
- C. linear queue
- D. priority queue

Answer: C

5. What is the queue full condition in a circular queue?

- A. `rear == SIZE-1`
- B. `rear == SIZE`
- C. `front == rear % 1`
- D. `front == (rear + 1) % SIZE`
- E. `front = rear + 1`

Answer: D