

Activity 4:(module 5):

ADS-1

Activity-45 (P15)

a) 0 1 2 3 4 5 6 7 8 9
 since given it is a queue,
 it follows FIFO

enqueue →

9	8	7	6	5	4	3	2	1	0
---	---	---	---	---	---	---	---	---	---

 → dequeue

so, this is possible.

b) 4 6 5 7 5 3 2 9 0 1

enqueue →

4	3	2	1	0
---	---	---	---	---

 → dequeue.

here we can't dequeue 4 first
 without dequeuing 0, 1, 2, 3

c) 2 5 6 7 4 8 9 3 1 0

enqueue →

2	1	0
---	---	---

 → dequeue

here we can't dequeue 2 without 0, 1

d) 4 3 2 1 0 5 6 7 8 9

enqueue →

4	3	2	1	0
---	---	---	---	---

 → dequeue

we can't dequeue 4 without dequeuing
 0, 1, 2, 3

→ only the possible 2 is possible.

Activity-5
 let us
 2, 4, 7
 enqueue

so, only the first sentence is possible & the remaining will be not possible.

ADS-1

∴ Activity-5:-

let us consider elements in a queue as

2, 4, 7, 3, 9

1 2 3 4 5 → dequeue