

# MID TERM EXAM

## Q2 :- DRY RUN

### Operations:-

1) insertatend(101).

head  $\rightarrow$  101  $\leftarrow$  tail.

2) insertatend(102).

head  $\rightarrow$  101  $\leftrightarrow$  102  $\rightarrow$  tail.

3) insertatbeginning(200).

head  $\rightarrow$  200  $\leftrightarrow$  101  $\leftrightarrow$  102  $\rightarrow$  tail.

4) insertatpos(150, 2).

head  $\rightarrow$  200  $\leftrightarrow$  150  $\leftrightarrow$  101  $\leftrightarrow$  102  $\rightarrow$  tail.

5) deletefrombeginning()

head  $\rightarrow$  150  $\leftrightarrow$  101  $\leftrightarrow$  102  $\rightarrow$  tail.

6) insertatend(300)

head  $\rightarrow$  150  $\leftrightarrow$  101  $\leftrightarrow$  102  $\leftrightarrow$  300  $\rightarrow$  tail.

(a) PatientID at head.

150

(b) PatientID at tail.

300.

(c) head  $\rightarrow$  tail.

150 101 102 300.

(d) tail  $\rightarrow$  head.

300 102 101 150.