Question1:

- A linked list is implemented using a backing array internally for the storage of the information.

A. True

B. False (correct)

Question2: Which of the following statements are wrong?

1. It is faster to lookup an element by index in an array compared with linked list
2. Linked lists can grow and shrink dynamically
3. In a circular linked list the last element points to a dummy node
4. When adding or removing nodes in a linked list we need to shift nodes to right or left (correct answer)

Questin3: How many fields does a node in a doubly linked list have?

1) 1
2) 2
3) 3**(correct)**
4) 4

Question4:

What does this function do if we pass the head pointer to a linked list (the head of a singly linked list)?

```
def func(Node n):
  if(n == NULL):
    return;
  func(n.next)
  print(n->data)
```

1) Prints all Nodes of the linked list in random order
2) Prints all Nodes of the linked list in its original order
3) Prints all Nodes of the linked list in the reverse order (correct answer)
4) Print alternate nodes of the linked list

Question5: What does this function do? (assuming that n is not the tail node)

```
Def  func(Node n):
        n.next = n.next.next;
```

1. **Adds a node after n**
2. **Removes node n**
3. **Removes the node after n (correct)**
4. **Reverses the link between node n and the node after n**