

St. Mira's College for Girls, Pune
 (Autonomous-Affiliated to Savitribai Phule Pune University)
 Class-S.Y.B.Sc(C.S)
 Subject: Data Structures Using C Programming
 Subject Code:BS31601
 Semester: III
 Year: 2019-20

All Units - focusing on Skill Development, Employability and Entrepreneurship

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 Date: 31/08/19

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 St. Mira's College For Girls, Pune - 1.

Ans a) Node structure of singly linked list

```

typedef struct node
{
    int data;
    struct node *next;
} *ll;

ll ll;
    
```

data	next	data	next
10	→	20	→

Ans b) Maximum number of comparisons needed to search an element in a singly linked list depends upon the number of nodes in the list. If there are n number of nodes, n comparisons will be needed.

Ans c)

- singly linked list
- singly circular linked list
- Doubly linked list
- Doubly circular linked list

Ans d)

- linked list is used in data structures as in stack, tree, hashtable.
- linked list is used in operating system for dynamic memory management.

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