1. What is linked list? How it is represented in memory

2. What is linked list? Explain with the help of 6 labeled node diagram.

3. What is record? How does it differ from linear array.

4. Explain Bubble sort algorithm with the help of suitable example.

5. Explain Binary search algorithm with the help of suitable example.

6. What are the different control structures?

7. Distinguish between Linear search and Binary search.

8. What is Binary tree? Explain linked representation of Binary tree in memory with suitable example.

9. Draw the tree diagram for the following expressions

   1. \[ R = \frac{[(a-b-c) + (a+b-c)]}{2} \]
   2. \[ P = \frac{2(x+y)}{(p+q)^2} \]
   3. \[ E = \frac{(a+b)}{[(c*d)-e]} \]

10. What are pointer array?