

(2)

2. Write an algorithm to insert a given element in the one-dimension array. Give a suitable example. 15

OR

What is Array? Describe all the operations performing in the array.

3. Describe the applications of linked list. 15

OR

Write an algorithm for insertion in linked list with giving suitable example.

4. Evaluate the following prefix expression using stack
$$/* A + BCD$$
 15

OR

Describe trees traversal algorithms.

5. Write the algorithm of selection sort and solve the given example with selection sort techniques : 15
65, 45, 21, 60, 15, 25, 5

OR

What is Merge sort? Write its algorithm with giving suitable example.

(3)

6. Describe the complexity of algorithms. 15

OR

Describe the asymptotic notation.
