**QB DATA STRUTURE**

1. Define the term Enqueue.
2. A \_\_\_\_\_ is a linear list, also known as LIFO list.
3. \_\_\_\_ is the term coined for insertion of elements in a stack list.
4. A \_\_\_\_\_ is a linear list, also known as FIFO list.
5. Discuss pop operation in Stack.
6. Define tree?
7. Define Omega notation with example.
8. What do you mean by Non linear data structure?
9. Differentiate between tree and graph data structures.
10. Write an algorithm for adding two numbers.
11. Discuss doubly-linked list. Give some examples.
12. What do you mean by non-linear data structure?
13. Discuss tree traversal with example.
14. Write a program in C language for multiplication of two numbers.
15. Explain Queue in detail with example.
16. Explain tree with example.
17. Write the definition of weighted graph?
18. Explain Stack in detail.
19. Differentiate between stack and queue data structures.
20. Write a program in C language for adding two numbers and printing a table of two.
21. Discuss any Sorting with example.
22. What do you mean by algorithm?
23. Discuss linked list with example in detail.
24. Explain tree? Explain it with example.
25. Discuss selection sorting? Explain it with an example (Assume a list of five elements only).
26. What do you mean by Non Preemtive data structure?
27. Explain bubble sorting. And also discuss its example (Assuming list of five elements only).
28. Discuss asymptotic notation.
29. Define doubly linked list.
30. Explain graph? And also explain with example.
31. Explain selection sorting with example.
32. Write a program in C language for adding two numbers and printing a table of two.
33. Discuss searching. Explain it with example.
34. Discuss asymptotic notations.
35. What is sorting? Write the insertion sorting algorithm.
36. Explain Array in detail.
37. What is a directed graph?
38. Which data structure do we use for testing a palindrome?
    1. Heap b. Tree c. Priority queue d. Stack
39. Write Short note on information.
40. What are the various operations performed on the Queue?
41. Which one of the below mentioned is linear data structure −
42. A - Queue B - Stack C - Arrays D - All of the above
43. \_\_\_ refers to a situation (ERROR) when one tries to enqueue/insert an item in a queue that is full.
44. Define the term data.
45. Define data structure.
46. What do you mean by Dequeue operation?
47. Write a program in C language to print "Hello Sanskriti".
48. What are the static memory allocation and dynamic memory allocation?
49. Write Short note on data structure.
50. What do you linear data structure? Give example.
51. "Which data structure do we use for testing a palindrome?
    1. Heap b. Tree c. Priority queue d. Stack
52. A queue follows \_\_\_\_\_\_\_\_\_:
    1. LIFO principle b. FIFO principle
    2. Linear tree d. Ordered array
53. Which of the following usees FIFO method
54. A - Queue B - Stack C - Hash Table D - Binary Search Tree
55. List operations performed over stack data structure.
56. Describe the types of Data Structures?
57. Give the name of different sorting algorithms.
58. (Top==-1) indicates that stack is …….
59. Write short note on multidimensional array.
60. Write down the condition for stack empty (underflow) and stack full (overflow).
61. What are some applications of Data Structures?
62. What do you mean by linear data structure?
63. What do you mean by Primitive data structure
64. Give the applications of Queue.
65. Give the examples of Postfix, prefix and infix.
66. Write short note on Linked List.
67. What is the Difference between data and information?
68. Explain Asymptotic Notations in brief.