



SRI RAMAJAYAM GLOBAL SENIOR SECONDARY CBSE SCHOOL

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Chapter -9 (23.04.2020)

STD: XII

TIME: 90 Minutes

SUBJECT: COMPUTER SCIENCE

TOTAL MARKS: 40

I. Very Short Answer Type Questions (1-mark)

10x1=10

1. What do you mean by Data Structure?
2. FIFO data structure is?
3. LIFO data structure is?
4. Can we have nested list?
5. Name one linear data structure.
6. Name one non-linear data structure.
7. Name the operation for insertion in a stack.
8. Name the operation for deletion from a stack.
9. Name the function to find length of a list.
10. Indexing in list starts from ?

II. Short Answer Type Questions (2-marks)

10x2=20

1. How is Data Structure different from Data Type?
2. Define Stack and Queue
3. Name some operations commonly performed on data structures?
4. What is a list?
5. What is traversing? Write python code to traverse a list.
6. Name the methods used for inserting and deleting elements from a list.
7. Write some applications of stack.
8. Write some applications of queue.
9. Describe similarities between stack and queue.
10. Describe differences between stack and queue.

III. Application based Short Answer Type Questions (2-marks)

5x2=10

1. Predict the output with respect to the list L=[40,20,30,10,50]
 - (a) print(L)
 - (b) print(len(L))
 - (c) L.pop() ; print(L)
[40, 20, 30, 10]
 - (d) L.append(70); print(L)
 - (e) L.sort(); print(L)

2. Find the output:

(a)secondlist=[1,2,3,[4,5,[6,7,8],9],10,11] print(len(secondlist))
(b) L=[1, 2, 3, [4, 5, [6, 7, 8], 9],10, 11] L[1]
(c) L[3]
(d) L[3][1]
(e)L[3][2][0]
(f)L[3][2]
(g)L[3][2][1]
(h)L[3][3]

3. Consider STACK=['a','b','c','d']. Write the STACK content after each operations:

- a) STACK.pop()
- b)STACK.append('e')
- c) STACK.append('f')
- d) STACK.pop()

4. Write a program to implement a stack for the students(studentno, name). Just implement Push.
PUSH(stk,data)

5. Write a program to implement a stack for the students(studentno, name). Just implement Pop and display.

****All the Best*****