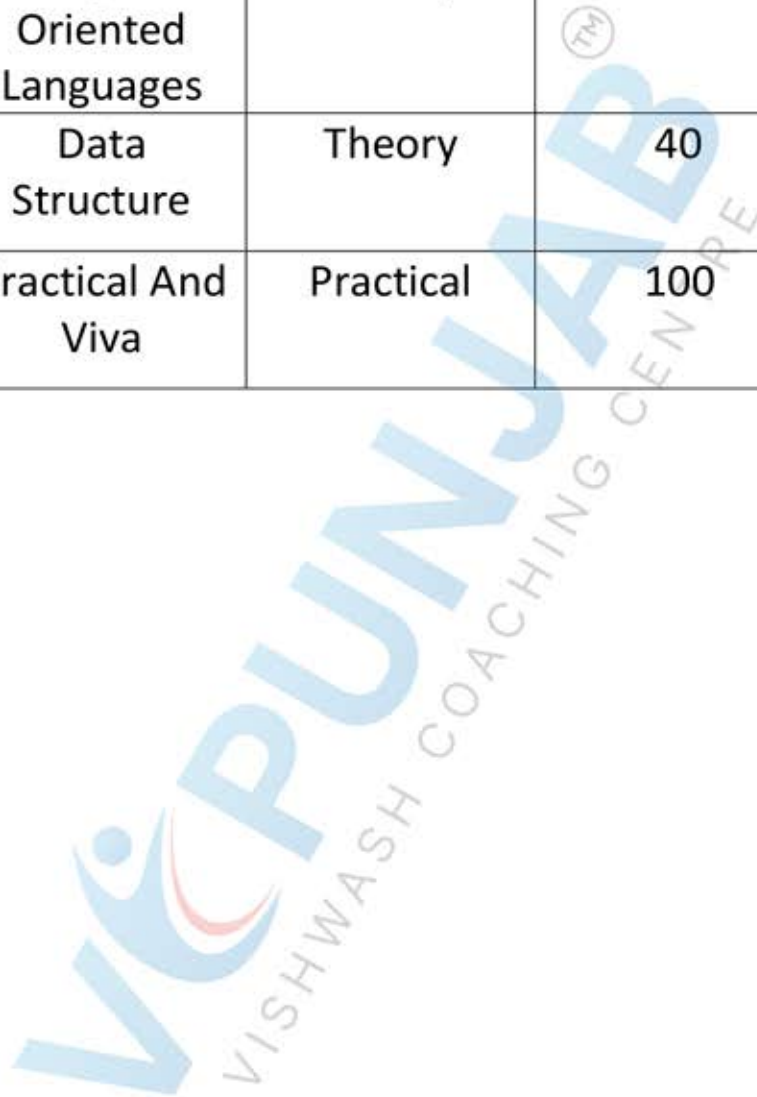


## Certificate Course In C++

SR NO.	NAME OF PAPER	SUBJECT TYPE	MINIMUM MARKS	TOTAL MARKS
1	Object Oriented Languages	Theory	40	100
2	Data Structure	Theory	40	100
3	Practical And Viva	Practical	100	200



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## SECTION-A

### Object Oriented Languages

- 1.What is object-oriented language?
2. Is C++ an object-oriented language?
3. How long does it take to learn object oriented programming?
4. What was the first object oriented programming language?

### Data Structure

- 1.What is data structure and example?
- 2.What is array in C?
- 3.Is data structure C or C++?
- 4.What are the main types of data?

## SECTION-B

### Practical And Viva

#### Q1.FILL IN THE BLANKS

**M.M-10MARKS**

- 1.A stack is a linear structure implemented in LIFO \_\_\_\_\_ manner.
2. The technical terms for insertion-in-a-stack and deletion-from-stack are \_\_\_\_\_ and \_\_\_\_\_ respectively.
3. A queue is a linear structure implemented in FIFO \_\_\_\_\_ manner.
4. The Enqueue operation adds item at the \_\_\_\_\_ end of the queue.

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15. The Dequeue operation removes the item from the \_\_\_\_\_ end of the queue.

### Q2.MCQ

M.M-10MARKS

1) How can we describe an array in the best possible way?

- a.The Array shows a hierarchical structure.
- b.Arrays are immutable.
- c.Container that stores the elements of similar types
- d.The Array is not a data structure

2) Which of the following is the correct way of declaring an array?

- a.int javatpoint[10];
- b.int javatpoint;
- c.javatpoint{20};
- d.array javatpoint[10];

3) How can we initialize an array in C language?

- a.int arr[2]=(10, 20)
- b.int arr(2)={10, 20}
- c.int arr[2] = {10, 20}
- d.int arr(2) = (10, 20)

4) Which of the following is the advantage of the array data structure

- a.Elements of mixed data types can be stored.

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b.Easier to access the elements in an array

c.Index of the first element starts from 1.

d.Elements of an array cannot be sorted

5) Which of the following highly uses the concept of an array?

a.Binary Search tree

b.Caching

c.Spatial locality

d.Scheduling of Processes

### **Q3.SHORT ANSWER TYPE QUESTION M.M-30MARKS**

1.What is the object-oriented programming?

2.What is Characteristics of Object-Oriented Programming?

3.What is the principles of object-oriented programming?

4.Difference between data structure and data programming?

5.How many languages are OOP?

6.Is Python a OOP language?

7.Is C++ best for data structures and algorithms?

8.What is data structure and types?

9.What is a 2 D array or data structure?

10.What is 3 dimensional array?

### **Q4.LONG ANSWER TYPE QUESTION M.M-30MARKS**

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1. What is object oriented languages and explain building block of object-oriented Programming?

2. Define data structure and its types?

**Q5.VIVA**

**M.M-20MARKS**

