

Paper Code : 21314

F-414

**B.C.A. (Third Semester) Examination, 2021
(New Course)**

Paper - BCA-304-N

**OBJECT ORIENTED DESIGN AND
PROGRAMMING IN C++**

Time : Three Hours] [Maximum Marks : 70

**Note : Attempt any five questions. All questions
carry equal marks.**

1. (a) How object oriented programming languages is different from procedural oriented languages?
- (b) What do you mean by "Class" and "Object"? Describe using a small code.

P.T.O.

2. (a) How to achieve abstraction?
(b) Describe OOD-Methodology. What is SA/SD?
3. (a) Write a program using "class" and "object" to perform all basic arithmetic operations.
(b) Explain various operators in C++.
4. (a) Differentiate "continue" and "break" statements with the help of a code.
(b) How "Call-by-value" is different from "Call-by-Reference"?
5. (a) How "Scope resolution operator" is useful in C++ programming? Justify using a code.
(b) What is "Friend-Function"?
6. (a) Elaborate the advantages of "Inheritance" in any programming. What are its different types? Explain using their structures.

21314-F-414

(2)

- (b) Write differences between compile time polymorphism and run-time polymorphism clearly.
7. (a) Write a program to show the concept of operator overloading.
(b) What are “virtual functions”?
8. Write short notes on the following :
- (a) Pointers in C++
(b) JSD
(c) Metadata
(d) Static Binding versus Dynamic Binding

<https://www.mjpruonline.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजें और 10 रुपये पायें,

Paytm or Google Pay से