

Paper Code : 21314

F-414

B.C.A. (IIIrd Semester)

Examination, 2019-20

(New Course)

OBJECT ORIENTED USING C++

Paper-BCA-304

Time : 3 Hours]

[Maximum Marks : 70

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

1. (a) Define OOP's concepts in detail. Write its application area.
(b) Define the various access specifiers used in class and their purpose also.
2. (a) What do you mean by classification and composition ?
(b) How many types a function can be define in a class ? Explain each with in one program.
3. (a) What is the difference between Do-while and While loop ? Explain each with a program.
(b) What is the difference between Call by Value and Call by Reference ? Explain each with program.
4. (a) What is constructor ? Write a program for constructor overloading.
(b) Write a program to find the factorial of a given number by using recursion.
5. (a) Explain friend function. Give *five* characteristics of friend function. Why friend function is not defined with scope resolution operator ?
(b) Write a program of prime number by using friend function.
6. What is operator overloading ? Limitation of member function in binary Operator overloading. Write a program to overload a '-' operator by using friend function.
7. Explain the term inheritance and its types in detail with proper syntax.
8. Write short notes on the following :
 - (a) Association
 - (b) Scope resolution operator
 - (c) Function overloading
 - (d) Operators