

BCA 3rd Semester (Honours) Examination, 2019

Subject: Computer Application

Paper: BCA-303

Time: 2 Hrs.

Full Marks: 40

1. **Answer any two questions** 5x2=10
 - a. Define a virtual function. Explain the need of a virtual function with an example.
 - b. Explain the following output manipulators:
i) setprecision() ii) setfill()
 - c. Briefly explain the facilities available in fstream class for file operations.
 - d. Write a short note on use of scope resolution operator in inheritance.

 2. **Answer any three questions** 10x3=30
 - a. List and explain five member functions from vectors and lists classes.
 - b. What is exception handling? Write a C++ program to demonstrate the "try", "throw", and "catch" keywords for implementing exception handling.
 - c. Explain the order of invocation of constructors and destructors in multilevel inheritance.
 - d. With the help of syntax for creating the derived class, explain the visibility of the base class members, for the access specifiers private, protected and public.
 - e. Explain with suitable example when to use member function and when to use friend function as an operator function for overloading binary operators.
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