



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

BCA-16/BCA-17 2nd YEAR 3rd SEMESTER ASSIGNMENT

Session - 2017-18, Summer Last Date of Submission: 31st October 2017

Session - 2017-18, Winter Last Date of Submission: 30th April 2018

Course Title: Object-Oriented Programming through C++

Course Code: BCA-08
Maximum Marks: 30/40

Section 'A' contains 08 short answer type questions of 4/2.5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. What is class? How is it used to hide data?
2. What is inline function? How functions can be made inline? Explain with examples.
3. What does polymorphism mean in C++ language?
4. What is Virtual base class? When a class is made a virtual base class?
5. How is polymorphism achieved at (i) compile time, and (ii) run time?
6. What is the difference between call by value and call by reference? Give an example.
7. Describe the various file mode options available? Explain them by giving example.
8. What is the difference between while and do while loop? Give suitable example.

Section 'B' contains 04 long answer-type questions of 7/5 marks each. Learners are required to answers 02 questions only.

1. What is object oriented programming? How is it different from the procedure-oriented programming? Point out the unique advantages of an object oriented programming.
2. What is multiple inheritance? Discuss the ambiguity in multiple inheritance. Give an example.
3. Define constructors and destructors along with examples in C++ language. Also explain the use of copy constructor?
4. What is operator overloading? Write a program in C++ to overloading unary operator.