

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)****MCA-II 2nd YEAR 3rd SEMESTER ASSIGNMENT**

Last Date of Submission: 15 Jan., 2015

Course Title: Object-Oriented Programming through C++

Course Code: MCA-10

Year: 2014-15

Maximum Marks: 40 Marks

Section 'A' contains 08 short answer type questions of 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. (i) How is data hiding implemented in C++?
(ii) Compare overloading and overriding of functions.
2. Difference between class and struct and also illustrate with an example.
3. What is the use of preprocessor directive `#include<iostream>`?
4. What is a class? How objects of a class are created?
5. What are the components of Exception Handling? What are the disadvantages of the exception handling?
6. Differentiate between compile time polymorphism and run time polymorphism.
7. Define manipulators and also mention the manipulators that are used in C++.
8. What are input and output streams?

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.

1. What are the different kinds of inheritance? Explain them with suitable examples.
2. What is manipulator? Difference between manipulators and ios Function?
3. Explain Inline function and Function overloading with the help of an example.
4. Explain about call by reference and return by reference with program.