

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)****MScIT-12 2<sup>nd</sup> YEAR 3<sup>rd</sup> SEMESTER ASSIGNMENT**

*Last Date of Submission: 15 Jan., 2015*

**Course Title:** Object-Oriented Programming through C++

**Course Code:** MScIT-10

**Year:** 2014-14

**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.**

- (i) How is data hiding implemented in C++?  
(ii) Compare overloading and overriding of functions.
- Difference between class and struct and also illustrate with an example.
- What is the use of preprocessor directive `#include<iostream>`?
- What is a class? How objects of a class are created?
- What are the components of Exception Handling? What are the disadvantages of the exception handling?
- Differentiate between compile time polymorphism and run time polymorphism.
- Define manipulators and also mention the manipulators that are used in C++.
- 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.**

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