



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

**MSCIT-16/MSCIT-17 2<sup>ND</sup> YEAR 3<sup>RD</sup> 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:** Objective Oriented Programming through C++

**Course Code:** M.ScIT-10

**Maximum Marks:** 30/20

**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. List the features of Object oriented programming.
2. What is dynamic memory allocation?
3. Why do we need virtual function? Explain.
4. What are the concepts of object oriented programming? Explain in detail.
5. What is the difference between Static binding and Run time binding?
6. What do you mean by dynamic binding? How it is useful in OOP?
7. What is operator overloading?
8. What is an abstract class? Explain with suitable example.

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

1. Define inheritance? Explain different types of inheritance?
2. What is an Exception? Explain about try, throw and catch with example.
3. Explain the use of input/output functions put(), get(), write() and read() with an example each.
4. What is polymorphism? Explain the different types of polymorphism in C++.