



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

M.SC.IT 2ND YEAR 3RD SEMESTER ASSIGNMENT

Last Date of Submission: 15/01/2016

Course Title: Objective Oriented Programming through C++

Course Code: M.Sc.IT-10

Year: 2015-16

Maximum Marks: 40

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. Difference between Object Oriented Programming and Procedural Programming.
2. Define a class in C++ with following description:
 - a. Private members
 - b. Public members
3. Define Constructor and destructor using suitable examples.
4. What is inheritance? Explain its types with suitable examples.
5. What is pure virtual function? Give an example.
6. What is function? Differentiate between call by value and call by reference using a suitable example.
7. Explain the following:
 - a. Inline function
 - b. Function overloading
8. Develop your own functions for performing following string operations:
 - a. Copying one string to another
 - b. Comparing two strings

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

1. Explain the concepts of object-oriented programming with suitable examples.
2. Write short notes on following:

- a. Keyword
 - b. C++ identifiers
 - c. Variables
 - d. Constants
 - e. Streams in C++
3. What is operators? Discuss various types of operators in C++ with their precedence and associativity.
4. What are Decision and Control Structures? Explain the following with suitable example:
- a. do....while loop
 - b. for loop
 - c. break statement
 - d. continue statement

