

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

MCA-11/MCA-16 2nd YEAR 3rd SEMESTER ASSIGNMENT

Last Date of Submission: 15 Dec, 2016

Course Title: Object-Oriented Programming through C++

Course Code: MCA-10

Year: 2016-17

Maximum Marks: 30/40 Marks

Section 'A' contains 08 short answer type questions of 4/5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

Section 'A'

- 1. What is OOP? What are the difference between POP and OOP?
- 2. What do you mean by dynamic binding? How it is useful in OOP?
- 3. Discuss on various types of storage class.
- 4. What are nested classes?
- 5. What is the difference between Static binding and Run time binding?
- 6. Neatly explain constructor and destructor with suitable examples.
- 7. Define function overloading.
- 8. List the characteristics of a friend function.

Section 'B'

Section 'B' contains 04 long answer-type questions of 7/10 marks each. Learners are required to answers 02 questions only.

- 1. Differentiate between class and structure. With an example explain the syntax for defining a class.
- 2. Explain the exception handling procedure with suitable example.
- 3. Answer the following:
 - a. Differentiate between compile time polymorphism and run time polymorphism.
 - b. What is a virtual base class? When do we make it?
- 4. What is a constructor? Explain types of constructor with example