



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

**Cit/ Dit/ ADit  
(M-07) ASSIGNMENT  
Introduction to Database  
Management, Programming  
Techniques (C++ with OOPS),  
E-Commerce Technology**

*Last Date of Submission: 15 June 2011*

**Course Title: Introduction to Database Management,  
Programming Techniques (C++ with OOPS),  
E-Commerce Technology**

**Course Code: M-07**

**Year: 2010-11**

**Maximum Marks: 20 Marks**

**Section 'A'**

**Note: Section 'A' contains eight short answer type questions of 2.5 marks each. The learners are required to answer four questions only. Answers of short answer-type questions must be restricted to about 250 words approximately.**

1. Differentiate between while and do-while loop with the help of suitable example.
2. Explain the features of Object Oriented Programming with suitable examples.
3. Write a C++ program to copy contents of one file into another.
4. Define primary key, foreign key, candidate key and super key with suitable relational schema.
5. Discuss the concept of centralized database and distributed database.
6. Define normalization. With the help of an example relational schema explain it up to third normal form.
7. What do you mean by e-commerce? Briefly explain.
8. What is e-shopping? Explain the advantages and disadvantages of e-shopping?

**Section 'B'**

**Section 'B' contains four long answer-type questions of 5 marks each. Learners are required to answer two questions only.**

1. Write a program :
  - a. To calculate square and cube of number using inline functions.

- b. To calculate area of square and rectangle using function overloading.
2. Explain with the help of suitable example:
  - a. Constructor
  - b. Destructor
3. Describe following:
  - a. Object Oriented database
  - b. Exception in PL/SQL
  - c. COMMIT and ROLLBACK statement
  - d. Views
  - e. Functions vs. Procedures
4. Briefly explain about online railway ticketing system. How is it different from conventional system?

