

**BACHELOR IN COMPUTER
APPLICATIONS****Term-End Examination****December, 2008****CC-16 : INTRODUCTION TO C++***Time : 2 hours**Maximum Marks : 75*

Note : Question number 1 is **compulsory**. Answer any **three** questions from the rest. Use C++ wherever necessary.

-
-
1. (a) Explain the following with an example of each : 3×4=12
- (i) Function Overloading
 - (ii) Single Inheritance
 - (iii) Exception Handling
- (b) Write a program in C++ for the addition of two numbers. The numbers should be accepted as strings during input. There should be no limit on the number of digits in each number. 12
- (c) Write any three differences between 'C' and 'C++'. 6

2. (a) Explain the paradigm of Object Oriented Programming with the help of suitable examples. What are the advantages of object oriented programming ? 10
- (b) Write a program in C++ to compute the factorial of the input integer. 5
3. (a) Define the term "Class" with the help of an example. Is it possible to create objects of any class ? Justify your answer. 9
- (b) Write a function in C++ to swap two integer values. 6
4. (a) List any two operators that can be overloaded. Write sample code demonstrating the overloading of each of the two operators. 10
- (b) What is a friend function ? Write at least one advantage and one disadvantage of friend functions. 5
5. (a) What is a Virtual Function ? Give an example. Also, write at least one advantage of it. 9
- (b) Explain Multiple Inheritance with an example. 6