

**BACHELOR IN COMPUTER
APPLICATIONS****Term-End Examination****December, 2011****CS-72 : C++ AND OBJECT ORIENTED
PROGRAMMING***Time : 2 hours**Maximum Marks : 60*

Note : Question number 1 is compulsory. Attempt any three questions from the rest.

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1. (a) Differentiate between the following : 10
 - (i) Class diagram and Interaction diagram.
 - (ii) Dynamic loading and late binding.
 - (b) What is function overloading ? Write a 10
program in C++ which has a function **add**
that is able to concatenate two strings, if
value passed are strings and can perform
addition, if values are numbers.
 - (c) Discuss various looping statements provided 10
in C++ ? Explain their syntax with example.
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2. (a) Write a C++ program to reverse a four digit 4
number.
 - (b) What do you mean by object oriented 6
programming ? How it differs from modular
programming ?

3. (a) Explain the advantages and usage of Macros with an example. 5
- (b) What is operator overloading ? Overload the '+' operator for adding two complex numbers. 5
4. (a) Explain **this** pointer with an example. 4
- (b) Differentiate between private, public and protected data members of the class using examples. 6
5. Explain the following : 2.5x4=10
- (a) Multiple and multilevel inheritance
- (b) Base and derived classes
- (c) Scope resolution operator
- (d) Parameterized constructor
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