

BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination

December, 2011

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 concept of Multiple inheritance and illustrate this with the help of an example. 8
- (b) Write a program in C++, using operator overloading to concatenate two strings. 8
- (c) Write an inline function to find the largest number among the three numbers given. 7
- (d) With the help of a simple C++ program, explain the significance of a *friend function*. 7
2. (a) Write an interactive program in C++ to add two matrices A and B of order $i \times j$. 7
- (b) With the help of an example for each, explain the use of the following operators in C++ : 8
 - (i) Bitwise and operator
 - (ii) Increment operator
 - (iii) Scope Resolution operator
 - (iv) $>>$ operator

3. (a) Write the syntax for the following looping constructs and give an example for each : 8
- (i) for
 - (ii) Do.....while
- (b) How can you pass objects as function arguments ? Explain with an example program. 7
4. (a) What is the use of static data members and static member functions ? How are they referenced ? Explain with an example. 7
- (b) What is a Virtual function ? Explain with an example. 8
5. Explain the following with an example of each : 15
- (a) Data Abstraction
 - (b) Templates
 - (c) Macros
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