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CC-16

BACHELOR IN COMPUTER APPLICATIONS

00579

Term-End Examination

June, 2010

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) Create a class "My string". Write the following methods in this class to perform the actions mentioned:
 - i) Reverse (): To display the reverse of the given input string.
 - (ii) String Len (): To display the length of the given string.
 - (b) Write a program in C++, using recursion to find the factorial of a given number. Your program should also provide the standard checks on input like number should not be negative.
 - (c) Write the syntax of the following in C++ and give an example for each:
 - (i) Do.. While
 - (ii) GoTo
 - (iii) BREAK.
 - (d) What are nested classes? Explain with an example.

P.T.O.

- 2. (a) Write a program in C++ to illustrate the multiple inheritance concept.
 - (b) How is exception handling performed in C++? Write a program-segment that throws an arithmetic exception as and when an input number is greater than 9999.
- 3. (a) Write a program in C++ to count the occurrences of each vowel in a given string.
 - (b) With the help of a suitable example for each, explain the visibility modes (private, public and protected).
- 4. (a) Write a program in C++ to add two 7 matrices.
 - (b) Explain the concepts of function 8 overloading and operator overloading with the help of an example.
- 5. Explain the following with their usage in C++ programming: 5x3=15
 - (a) Friend function
 - (b) Arithmetic If operator
 - (c) Size of operator
 - (d) Scope resolution operator
 - (e) Abstract class