BACHELOR OF COMPUTER APPLICATIONS (Pre-Revised)

02734 Term-End Examination
December, 2014

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.

- 1. (a) Write a program in C++ to concatenate two strings using friend function. Define necessary classes with appropriate data members and member functions.
 - (b) Explain the use of following operators in C++ with an example for each: 10
 - (i) <<
 - (ii) %
 - (iii) --
 - (iv) &&
 - (v) ||
 - (c) Define the term Object and a Class.
 Discuss the principles of Abstraction,
 Encapsulation and Inheritance with the
 help of an example.

10

10

2.	(a)	Explain the concept of Overloading.
		Illustrate it with the help of an example. 5
	(b)	Explain the concept of template. How can it be used in C++ programming? Explain with the help of an example. 5
3.	(a)	Explain interaction diagrams in UML with
		the help of examples. 5
	(b)	Design a class for Complex Numbers with appropriate constructor and destructor. 5
4.	(a)	What is a virtual function? Illustrate it
		with the help of an example. 5
	(b)	What is an inline function? Write an inline
		function to find the cube of a number. 5
5.	Explain the following with the help of an example	
	for ea	1ch: $4 \times 2\frac{1}{2} = 10$
	(a)	Multiple Inheritance
	(b)	Exception Handling
	(c)	I/O file stream
	(d)	Class Diagram