

ICSE CBSE IGCSE ALEVEL IB IIT IGNOU TYbcom

BACHELOR IN COMPUTER APPLICATIONS

Term-End Examination June, 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.

- (a) Write a program in C++ to simulate the functionality
 of a simple calculator to perform addition,
 subtraction, division, multiplication and to find
 percentage.
 - (b) Write a program in C++ to count the number of alphabets and blank-spaces in a given string. 10
 - (c) With the help of example program code in C++ explain the following features of OOPS: $2\times5=10$
 - (i) Overloading
 - (ii) Inheritance

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2.	(a)	Write an inline function to find the largest number among three given numbers.	7
	(b)	Write a program in $C++$ to find the difference between two metrices of size $n \times n$.	8
3.	(a)	Give the syntax for the following statements of C++ along with an example for each: (i) For loop	8
		(ii) While loop (iii) GOTO (iv) Switch	
	(b)	Write a program in C++ to find the GCD (Greatest Common Divisor) of the two given numbers.	7
4.	(a)	With the help of a sample program segment in C++, explain the significance of array of objects.	5
	(b)	Write a program in C++ to search for a given number in given list of "N" numbers. Use any of the searching techniques and explain the program logic.	10
5.	Write short notes on : $5\times3=15$		15
	(i)	Data Encapsulation	
	(ii)	I/O file streams	
	(iii)	Public, Private and Protected specifiers	
	(iv)	Increment and Decrement operators	
	(v)	Type Conversion	