Enrollment No: Exam Seat No:							
C.U.SHAH UNIVERSITY							
	vv inter	Examination-20	15				
Subject	Name: Object Oriented Prog	gramming					
Subject	Code: 4TE02OOP1		Branch: B.Tech (All)				
	r: 2 Date: 23/11/2015	Time: 10:30 To 1:30	Marks: 70				
(2) (3)	Use of Programmable calcula Instructions written on main a	tor & any other electronic instanswer book are strictly to be eas (if necessary) at right placed.	obeyed.				
Attem	pt the following questions:		(14)				
a)	Consider the following sta	tements:	` ,				
	int $x = 22,y=15;$ x = (x>y)? (x+y) : (x-y);						
		after executing these statemen	nts?				
	(A) 22	(B) 37					
	(C) 7	(D) Error. Cannot	be executed				
b)	The members of a class, by default, are						
	(A) public	(B) protected					
	(C) private	(D) mandatory to	specify				
c)	The keyword friend does						
	(A) the private section of a						
	(B) the class desiring access						
	(C) the class allowing access to another class.(D) the public section of a class.						
d)	What is the output of the following code char symbol[3]={'a','b','c'};						
	for (int index=0; index<3; i						
	cout << symbol [index];	,					
	(A) a b c	(B) "abc"					
	(C) abc	(D) 'abc'					
e)	In C++, dynamic memory allocation is accomplished with the operator						
	(A) new	(B) this					
	(C) malloc()	(D) delete					

Q-1



f)	A variable defined within a block is visible (A) From the point of definition onward in the program. (B) From the point of definition onward in the function. (C) Throughout the function. (D) From the point of definition onward in the block.				
g)	If an array is declared as int a[4] = {3, 0, 1, 2}, then values assign (A) 3, 0 (C) 3, 2	ned to a[0] & a[3] will be (B) 0, 2 (D) 0, 4			
h)	A function call mechanism that passes copy of the values of the arguments is (A) call by name	(B) call by value			
	(C) call by reference	(D) call by value result			
i)	The process of building new classes fr (A) Polymorphism (C) Inheritance	om existing one is called (B) Structure (D) Cascading			
j)	Which of the following is not the char (A) They should be declared in the public (B) They do not have return type. (C) They cannot be inherited. (D) They can be virtual.				
k)	A class defined within another class is:				
	(A) Nested class(C) Containership	(B) Inheritance(D) Encapsulation			
1)	The major goal of inheritance in C++ is: (A) To facilitate the conversion of data types. (B) To help modular programming. (C) To extend the capabilities of a class. (D) To hide the details of base class.				
m)	An exception is caused by(A) a runtime error.(C) a problem in the operating system.	(B) a syntax error.(D) a hardware problem.			
n)	A copy constructor takes				
	((D)			



(A) no argument(C) two arguments

(B) one argument(D) arbitrary no. of arguments



Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions					
	a)	Difference between Procedure Oriented Programming and Object Oriented Programming.	(07)			
	b)	Briefly explain the basic structure of a C++ Program with suitable example.	(07)			
Q-3	Attem	pt all questions				
	a)	Which operators cannot be overloaded? Write steps to overload + operator so that it can add two complex numbers.	(07)			
	b)	What is Class? And what is an Object? Explain with suitable example.	(07)			
Q-4	Attempt all questions					
	a)	Explain Function Overloading with suitable example.	(07)			
	b)	Explain Constructor Overloading with suitable example.	(07)			
Q-5	Attempt all questions					
	a)	Briefly explain various File Management Functions with suitable example	(07)			
	b)	Explain virtual function with example. Why do we need virtual function?	(07)			
Q-6	Attempt all questions					
	a)	What is type conversion?				
		Explain following type conversion with example				
		1) Conversion from basic type to class type				
		2) Conversion from class type to basic type				
		3) Conversion from class type to class type				
	b)	Write a C++ program to swap the values of two number using swap() function	(07)			
		using the concepts of Call by Value & Call by Reference.				
Q-7	Attempt all questions					
	a)	What are the different forms of inheritance? Give an example for each.	(07)			
	b)	Explain constructor and destructor in C++ with example.	(07)			
Q-8	Attempt all questions					
	a)	Explain Exception Handling through trycatch blocks with example.	(07)			
	b)	Create a Class student stores the roll no, Class test stores the marks obtained in	(07)			
		two subjects and class result contains the total marks obtain in the test. Class				
		result can inherit the details of the marks obtain in the test and the roll no. of the				
		student class.				

