_	Enrol	lment No:	~~~~					
			C.U.SHAH	UNIVERSITY				
			Summer Ex	amination-2017				
	Subje	ct Nama • 1	Object Oriented Programı	ning				
'	Subje	ct Name.	Object Offented Frogramm	ming				
;	Subje	ct Code : 4	TE02OOP1	Branch: B.Tech (All)				
:	Semes	ster: 2	Date: 12/05/2017	Time: 02:00 To 05:00	Marks: 70			
-	Instruc	ctions:						
			•	ny other electronic instrument is pro	ohibited.			
		(2) Instructions written on main answer book are strictly to be obeyed.						
			at diagrams and figures (if n	ecessary) at right places.				
	(4)	Assume	suitable data if needed.					
Q-1		Attempt	the following questions:		(14			
Q-1	a)	Explain e			(17			
	b)	What is p						
	c)		estract class.					
	d)	What is the functionality of tellg()?						
	e)	What is N	Null Pointer?					
	f)		capsulation.					
	g)		an					
		1.operator						
		2.function	1					
		3.Object						
	• •	4.Macro		1 64 1 4 9				
	h)		the following is the correct	class of the object cout?				
		1.iostrean						
		2.istream 3.ostream						
		4.ifstream						
	i)	•	the following approach is ac	danted by C±±2				
	1)	1.Top-do	0 11	dapicu by C++:				
		2.Bottom						
		3.Right-le	±					
		4.Left-rig						
	j)	_	the following is correct abo	ut class and structure?				
	J/		n have member functions w					
				efault while that of structure are private	ate.			
			to structure or classes canno	<u> •</u>				



4 class data members are private by default while that of structure are public by default.

Which of the following problem causes an exception?

k)

- 1.Missing semicolon in statement in *main()*. 2.A problem in calling function.
- 3.A syntax error.
- 4.A run-time error.
- 1) Which of the following type of class allows only one object of it to be created?
 - 1 Virtual class
 - 2 Abstract class
 - 3 Singleton class
 - 4 Friend class
- **m**) Define polymorphism.
- **n**) What is the application of the scope resolution operator :: in c++?

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

	Attempt all questions	
(a)	What is constructor? Explain copy constructor with an example.	(07)
(b)	What is function overloading? Explain with an example.	(07)
Attempt all questions		
(a)	What is inline function? Explain with an example.	(07)
(b)	Explain destructors in detail with example.	(07)
Attempt all questions		
(a)	Explain operator overloading with an example.	(07)
(b)	Explain 'Basic to class' and 'class to basic' type conversion with an example.	(07)
Attempt all questions		
(a)	Explain the concept of virtual base class.	(05)
(b)	Explain 'this' pointer with example.	(05)
(c)	Explain pure virtual function in brief.	(04)
Attempt all questions		
(a)	What is inheritance? Explain various types of inheritance with example.	(10)
(b)	Write a program to swap the values of two integer variables using call by reference.	(04)
7 Attempt all questions		
(a)	Explain friend function with an example.	(07)
(b)	What are command line arguments? Explain with an example.	(07)
	Attempt all questions	
(a)	Explain exception handling in C++ with an example.	(07)
(b)	What is template? Explain class templates with multiple parameters.	(07)
	(b) (a) (b) (a) (b) (a) (b) (c) (a) (b) (a) (b) (a) (b)	 (a) What is constructor? Explain copy constructor with an example. (b) What is function overloading? Explain with an example. Attempt all questions (a) What is inline function? Explain with an example. (b) Explain destructors in detail with example. Attempt all questions (a) Explain operator overloading with an example. (b) Explain 'Basic to class' and 'class to basic' type conversion with an example. Attempt all questions (a) Explain the concept of virtual base class. (b) Explain 'this' pointer with example. (c) Explain pure virtual function in brief. Attempt all questions (a) What is inheritance? Explain various types of inheritance with example. (b) Write a program to swap the values of two integer variables using call by reference. Attempt all questions (a) Explain friend function with an example. (b) What are command line arguments? Explain with an example. Attempt all questions (a) Explain exception handling in C++ with an example.

