	Enroll	ment No:		Exam Seat No:	
			C.U.SHAH	UNIVERSITY	
				camination-2017	
	Subjec	et Name :	Object Oriented Programm	ming	
	Subject Code: 4TE02OOP1			Branch: B.Tech (All)	
	Semes	ter: 2	Date: 12/05/2017	Time: 02:00 To 05:00	Marks: 70
	Instruc	tions:			
			<u> </u>	my other electronic instrument is prol	hibited.
				book are strictly to be obeyed.	
			at diagrams and figures (if n suitable data if needed.	ecessary) at right places.	
	(1)	Tissume	Suitable data il ficeded.		
Q-1		Attemnt	the following questions:		(14
Q-1	a)	Explain e	~ -		(17
	b)	What is p			
	c)		estract class.		
	d)		he functionality of tellg()?		
	e)		Null Pointer?		
	f)	Define en	capsulation.		
	g)		an		
	O,	1.operato			
		2.function	1		
		3.Object			
		4.Macro			
	h)	Which of	the following is the correct	class of the object cout?	
		1.iostrear	n		
		2.istream			
		3.ostream	ı		
		4.ifstrean	\imath		
	i)	Which of	the following approach is a	dapted by C++?	
		1.Top-do	wn		
		2.Bottom	*		
		3.Right-le			
		4.Left-rig			
	j)		the following is correct abo		
			n have member functions w		
		2 class da	ita members are public by de	efault while that of structure are priva	nte



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

3 Pointer to structure or classes cannot be declared.

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.

