Reg. No.:												
Question Paper Code: 41834												
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016												
	Third Semester											
Information Technology												
14UIT304- OBJECT ORIENTED PROGRAMMING												
(Common to Computer Science and Engineering)												
(Regulation 2014)												
Duration: Three hours								Max	imuı	m: 10	00 M	arks
		Answer	r ALL Ç	uesti	ons							
		PART A -	(10 x 1	= 10	Marl	xs)						
1.	What are the thing	gs to be inherited from	the bas	e clas	ss?							
	` ´	r and destructor		` ′	frie							
(c) operator = () members				(d) all the above								
2.	2. Which of the following are available only in the class hierarchy chain?											
(a) Public data members				(b) Private data members								
	(c) Protected	data members		(d)	Mei	mber	func	ction	S			
3.	Which of the follo	owing operators canno	ot be ove	rload	led?							
	(a) +	(b) <		(c)	::				(d) =			
4.	Which of the follo	owing cannot be friend	1?									
	(a) Function			(b)	Clas	SS						
	(c) Object			(d)	Ope	erato	r fun	ction	1			
5. Which statement is used to catch all types of exceptions?												
(a) catch()					catc	-		•				
	(c) catch()			(d)	catc	h(Ex	cept	10n 6	e)			

6.	Which of the following problem causes an exception?							
	(a) Missing semicolon in stateme(b) A problem in calling function(c) A syntax error(d) A run-time error							
7.	Virtual functions are used in							
	(a) early binding(c) dynamic binding	(b) static binding(d) none of these	_					
8.	How many instances of an abstract c	lass can be created?						
	(a)1 (b) 5	(c) 13	(d) 0					
9.	. Which header file is used for reading and writing to a file?							
	(a) #include<iostream></iostream>(c) #include<file></file>	· /	<pre>(b) #include<fstream> (d) #include<conio></conio></fstream></pre>					
10.	What is meant by standard C++ libra	ary?						
	(a) It is the collection of class de algorithms(b) It is a header file(c) Both (a) and (b)(d) None of these	efinitions for standard data structures	sand a collection of					
	PART	- B (5 x $2 = 10$ Marks)						
11.	What is inline function? Give an exa	mple.						
12.	2. Define the terms realloc() and free().							
13.	3. What is the use of terminate and unexpected functions? When they are called?							
14.	4. What is an abstract class?							
15.	. What is the role of the file opening mode ios::trunk?							

16.	(a)	Explain the basic concepts of object oriented programming.	(16)
		Or	
	(b)	(i) Write short notes on Static Member function with an example.	(8)
		(ii) Write a C++ program that inputs two numbers and outputs the largest number u inline function.	sing (8)
17.	(a)	(i) Explain '+' operator overloading with an example.	(8)
		(ii) Explain type conversion with suitable example.	(8)
		Or	
	(b)	What are the characteristics of constructor functions? Explain the various type constructors and destructors. Illustrate with example program.	s of (16)
18.	(a)	(i) To write a C++ program to implement swapping of two numbers using function template of type integer, float, and character.	etion (8)
		(ii) Write short notes on class template with example.	(8)
		Or	
	(b)	What is an exception? How it is handled in C++ programs? Explain how the control transferred when exceptions occur during programs execution. Write a program illustrate exception handling.	
19.	(a)	(i) Demonstrate runtime polymorphism with an example.	(8)
		(ii) Write short notes on RTTI and down casting.	(8)
		Or	
	(b)	Discuss the different types of inheritance supported in C++ with suitable illustration.	(16)
20.	(a)	Describe various methods for performing formatted I/O stream operations with example.	n an (16)
		Or	
	(b)	What are manipulators? Explain in detail about various manipulators used for In Output operations with an example.	nput (16)