Reg. No.:					

(b) catch(Test t)

(d) catch(Exception

Question Paper Code: 43804

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Third Semester

Information Technology

		mioimation 100		75)			
	14UIT304	4 - OBJECT ORIENT	ED P	ROGRAMMING			
	(Comm	non to Computer Scier	nce ar	nd Engineering)			
		(Regulation 2	2014)				
	Duration: Three hours				Iaximum: 100 Marks		
		Answer ALL Qu	uestic	ons			
		PART A - (10 x 1 =	10 N	Marks)			
1.	. Which of the following concepts of OOPS means exposing only necessary information client?						
	(a) Encapsulation	(b) Abstraction		(c) Data hiding	(d) Data binding		
2.	Which of the following are	e available only in the	class	hierarchy chain?			
(a) Public data members				(b) Private data members			
(c) Protected data members				(d) Member functions			
3.	Which of the following op	erators cannot be over	loade	ed?			
	(a) + (b)) <	(c)	:: (0	d) =		
4.	Copy constructor must rec	eive its arguments by					
	(a) either pass-by-valu	e or pass-by-reference	•	(b) only pass-by-v	alue		
	(c) only pass-by-refere	ence		(d) only pass by a	ddress		
5.	Which statement is used to	catch all types of exc	eptio	ns?			

(a) catch()(c) catch(...)

6.	What is a templa	te?						
	•	te is a formula for creating te is used to manipulate th						
	(c) A template is used for creating the attributes							
	(d) None of	the above mentioned						
7.	Which of the following mechanism refers to static binding?							
	(a) templates(c) operator			(b) function overloading(d) all the above				
8.	How many instar	nces of an abstract class ca	an be created?					
	(a)1	(b) 5	(c) 13	(d) 0				
9.	Which of the following statement is correct? (a) A try block can have only one catch block (b) The try block can be followed by multiple catch blocks (c) The catch block can be followed by multiple try blocks (d) Multiple catch blocks can be followed by a try block							
10.	Choose the corre	ct option which gives the	current position of get po	inter in a file.				
	(a) seekg()	(b) seekp()	(c) tellg()	(d) tellp()				
		PART - B (5	x 2 = 10 Marks)					
11.	List the difference	e between an object and a	ı class.					
12.	Define the terms	realloc() and free().						
13.	What is the use of	of terminate and unexpecte	ed functions? When they a	are called?				
14.	Differentiate cro	ss casting and down castin	ng.					
15.	What is the use of	of namespace? How it is do	eclared and used in a C++	program?				
		PART - C (5	x 16 = 80 Marks)					
16.	(a) Explain abou	at the OOPS concepts and	its applications.		(16)			
			Or					
	(b) (i) What is with a pr	friend function? What is rogram.	the use of using friend fu	nctions in c++? Ex	plain (8)			
	(ii) What are	e the relationships between	n outer and inner classes?	Give an example.	(8)			

17.	(a)	(i)	Explain '+' operator overloading with an example.	(8)
		(ii)	Explain type conversion with suitable example.	(8)
			Or	
	(b)	(i)	Write a C++ program to illustrate the use of overloading assignment operator.	(8)
		(ii)	Write a C++ program to calculate the factorial of a given number using constructor.	copy
18.	(a)	(i)	What is a class template? Explain the syntax of a class template. Perform push pop operation of a stack using class template.	n and (10)
		(ii)	Briefly explain uncaught exception with an example.	(6)
			Or	
	(b)	(i)	Explain how rethrowing of an exception is done.	(4)
		(ii)	Write a C++ program that illustrates multiple catch statements.	(12)
19.	(a)	(i)	Write a C++ program to calculate the square and cube of a given number using multilevel inheritance.	(12)
		(ii)	Give the rules for using virtual functions.	(4)
			Or	
	(b)	(i)	Demonstrate runtime polymorphism with an example.	(8)
		(ii)	Write short notes on RTTI and down casting.	(8)
20.	(a)		at are manipulators? Explain in detail about various manipulators used for Input put operations with an example.	(16)
			Or	
	(b)	(i)	Explain namespace with example.	(8)
		(ii)	Write a C++ to count number of words in a text file named "OUT.TXT".	(8)