С	I	Reg. No. :										
Question Paper Code: 53804												
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018												
Third Semester												
Information Technology												
15UIT304 - OBJECT ORIENTED PROGRAMMING												
(Regulation 2015)												
Duration: Three hours Maximum: 100 Marks Answer ALL Questions												
PART A - $(5 \times 1 = 5 \text{ Marks})$												
1.	The size of the wchar_t data type is											
	(a) 1 byte	(b) 2 bytes	(c) 2	or 4 b	ytes	(d)	4 byt	tes				
2.	Tell which function is used to determine whether some CO2- R objects of the class have been created or not.											
	(a) Static member function			(b) Dynamic member function								
	(c) Fried function	(d) Function Overloading										
3.	Identify which symbo	l is can not be overloa	ded in (	<u>C++</u>						CO3-R		
	(a) =	(b) Delete	(c) &	&		(d)	?:					
4.	The undefined behavi	or in C++ program is a	avoided	by						CO4-R		
	(a) Constructor								estrı	uctor		
5.	Name which standard exception is used to handle the out of range situation CO											
	(a) std:out_of_range	(b) std:outof_range	(c) ste	d:of_r	ange	(d)	std:o	utofi	ange	9		
PART - B (5 x 3 = 15 Marks)												
6.	Write the significant elements of object oriented programming.									CO1- R		
7.	Mention the role of destructor in object oriented programming.								CO2- R			
8.	What do you mean by	function overload res	olution	?						CO3- R		
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9.	Defi	ine pure virtual function.	CO4- R								
10.	Nan	ne any four file modes in C++ file operations.	CO5- R								
PART – C (5 x 16= 80Marks)											
11.	(a)	Explain in detail about data types in C++ with suitable examples.	CO1- App	(16)							
	Or										
	(b)	Develop a C++ program to display the book information in the library management systems.	CO1- App	(16)							
12.	(a)	(i) List the characteristics of constructor.	CO2-App	(8)							
		(ii) Develop a C++ program to find the area and circumference of the circle using friend function. Or	CO2-App	(8)							
	(b)	Explain in detail about parameterized and copy constructor with suitable examples.	CO2-App	(16)							
13.	(a)	Write a C++ program to perform the addition, subtraction, multiplication and division between two complex numbers using binary operator overloading.	CO3-App	(16)							
	<b>a</b> )	Or									
	(b)	The student database contains student class , test class and result class. The base class is the student class. The test class is derived from the student base class. The result class inherits the properties from the test class. Justify which type of inheritance is used in that database. Implement that inheritance using $C^{++}$ program with sufficient methods.	CO3-App	(16)							
14.	(a)	Write the rules for virtual function . Also explain the virtual function with suitable example.	CO4- U	(16)							
	Or										
	(b)	Compare function and class templates with suitable examples.	CO4- Ana	(16)							
15.	(a)	Explain formatted and unformatted Input Output console in C++ program implementation.	CO5- U	(16)							
	(b)	Or Write a C++ program to write the content into "sample.txt" and read the content from "sample.txt".	CO5- U	(16)							