Reg. No.:

Question Paper Code: 53204

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

Third Semester

Computer Science Engineering

15UCS304 - OBJECT ORIENTED PROGRAMMING WITH C++

		Regulation 2015)		
Dui	ration: Three hours	Maxin	num: 100 Marks	
	An	swer All Questions		
	PART	$A - (5x \ 1 = 5 \ Marks)$		
1.	The preprocessor directive #include is required if		CO1- R	
	(a) console output is used	(b) console input is used		
	(c) both console input and output is	used (d) none of the above		
2.	A Class can have multiple construc	CO2- U		
	(a) Dynamic Constructors	(b) Parameterized Constructor	r	
	(c) Constructor overloading	(d) Copy Constructor		
3.	Derivation of a class from another of	lerived class is called	CO3- R	
	(a) Multilevel Inheritance	(b) Multiple Inheritance		
	(c) Hybrid Inheritance	(d) Multipath Inheritance		
4.	keyword is used to handle the exception		CO4- R	
	(a) try (b) catch	(c) rethrow (d) Excep	ption Handling	

5.	If v	we create a file	by 'ifstream',	then the	default	mode of	f the	file is	CO5- R
	(a) i	ios :: out	(b) ios :: in	(c) ios :: a	арр		(d) ios ::	binary
			PART –	B (5 x 3=	15Marks	s)			
6.	How the class is specified in C++?								CO1- U
7.	Define Constructor and write its Syntax							CO2- U	
8.	Define Runtime Polymorphism							CO3- U	
9.	What do you mean by catch all exceptions? Give its syntax and explain.							CO4- U	
10.	. Name the two way in which the file can be opened						CO5- U		
			PART	$C - C (5 \times 1)$	6= 80 M a	arks)			
11.	(a)	What is encapsu			ages? H	ow can		CO1-U	(16)
				Or					
	(b)	(i) Explain frien	d function with	example p	rogram.			CO1 -U	(8)
		(ii) Write a program out the element of the array that occur 89, 45, 85, 63, 1	ment of highest s the maximum	density, i.e.	the eler times. E	nent with: .g. <i>A</i> [] =	in the	CO1 -U	(8)
12.	(a)	Explain the follo	owing with exan	nple C++ P	rograms			CO2 -U	(16)
		1) Parameter	rized constructor	•					
		2) Copy con	structor						
			1	Or					
	(b)	Explain operator			function	n and me	ember	CO2 -U	(16)

13.	(a)	Write a C++ program to illustrate a single inheritance program to	CO3- U	(16)
		multiply and display the two numbers?		
		Or		
	(b)	(i) Explain Virtual Function with example program?	CO3- U	(10)
		(ii) What is abstract class with example?	CO3- U	(6)
14.	(a)	Explain in detail about exception handling with try, throw and catch statement with example programs?	CO4-U	(16)
		Or		
	(b)	Explain in detail about function and class templates with example programs?	CO4 -U	(16)
15.	(a)	Explain about random access file in detail.	CO5- U	(16)
		Or		
	(b)	(i) Explain about Formatted and Unformatted IO with suitable examples.	CO5- App	(8)
		(ii) Write a C++ program for namespace using keyword directive	CO5- App	(8)
		for printing a person name, age, and gender?		