C	Reg. No. :							
Question Paper Code: 53804								
B.E. /	B.Tech. DEGREE	E EXAMI	NATION,	APRIL 2	019			
	Thi	rd Semes	ster					
	Informa	tion Tecl	nnology					
15UI	T304 - OBJECT (ORIENT	ED PROGR	RAMMIN	IG			
	(Reg	gulation 2	015)					
Duration: Three hours			Maximum: 100 Marks					
	Answer	: ALL Qu	estions					
	PART A	$-(5 \times 1 =$	5 Marks)					
1. If different properties grouped or embedded OOP language?			•				CO1- I	
(a) Inheritance	(b) Encapsulation	(c) Po	olymorphism	n (d)) Data	abstrac	tion	
2. Tell which function objects of the class ha			whether so	ome			CO2- I	
(a) Static member fur	(a) Static member function			(b) Dynamic member function				
(c) Fried function	(c) Fried function		(d) Function Overloading					
3. Which member can never be accessed by inherited classes?						CO3-I		
(a) Private member for	(a) Private member function		(b) Public member function					
(c) Protected member	(c) Protected member function		(d) All can be accessed					
4. The undefined behavior in C++ program is avoided by							CO4-I	
(a) Constructor	(b)Virtual	(c)) Destructor	r (d)) Virtu	al Desti	ructor	
5. Which are the two handle the error?	blocks that are u	ised to c	heck error	and			CO5-I	
(a) Try and catch	(b) Trying and catching (c) Do and while (d) TryDo and Ched						nd Check	
	PART – B	(5 x 3=	15 Marks)					

CO1-R

CO2-R

Explain recursive function with its example program.

Mention the role of destructor in object oriented programming.

6.

7.

8. List out the operators that cannot be overloaded CO₃- R 9. Define pure virtual function. CO4-R 10. What are the various file stream classes. . CO5-R $PART - C (5 \times 16 = 80 Marks)$ Explain Object Oriented Paradigm with its essential elements. . 11. CO1- App (16)Or (b) Explain how structures are created and processed in C++? Write CO1- App (16)an example program for student database using structure 12. (a) (i) What is friend function? What is the use of using friend CO2-App (8) functions in c++? Explain with an example c++ program. (ii) Develop a C++ program to find the area and circumference of CO2-App (8)the circle using friend function. Or (b) Explain in detail about parameterized and copy constructor with CO2-App (16)suitable examples. 13. (a) Write a C++ program to add two complex number using operator CO3-App (16)overloading Or define (b) Write C++program to a class called CO3-App (16)patient(name,age,sex). Derive two classes from patient namely inpatient(ipno, date-of-admin, date-of-discharge) patient(opno, doctor-id and consulataion-fee). Define two classes namely general-ward (rent/day) and special-ward(room no, rent/day, eb-bill). For out-patient print the bill with consultation fee. For in-patients, print bill according to their accommodation either in general-ward or special-ward 14. (a) Write the rules for virtual function. Also explain the virtual CO4-U (16)function with suitable example.

Or

templates with an suitable C++ program.

(b) Define template. Explain the concept of class ad function CO4- Ana

(16)

- 15. (a) (i) Explain the 4 functions Seekg, Seekp, tellg, tellp used for CO5-U setting pointers during file operation and show how they are derived from f stream class.
 - (ii) Write a c++ program to create multiple text file and read from CO5- U (8) two files simultaneously.

Or

(b) Write a C++ program to write the content into "sample.txt" and CO5- U read the content from "sample.txt".