END TERM EXAMINATION

	THIRD SEMESTER [B.TECH] JANUARY 2024 ode: CIC211 Subject: Object Oriented Programming Using C++
Time: 3 Hours	
Note: A	ttempt any five questions including Q.No.1 which is compulsory. Select one question from each with
	Select one question from each unit.
Q1 Atta	what is an inline function and why is it used in C++? What is a generic function, explain with example? What are different derived data types in C++? What is a friend function and why is it used in C++? [3] Explain C++ Garbage Collection?
2 a)	TIMEM
b)	Differentiate between call by value and call by reference with program code? What are different types of operators used in C++? [7.5]
3) 131 (b7)	Explain features of object Oriented Programming using suitable examples? What is function and the line of the content of the
V	What is function overloading? Explain its usage using suitable examples? [7.5]
2	UNIT-II
t) gr	Explain the use of constructor and destructor in a class using examples? [7.5] What is dynamic memory allocation? Explain with program code? [7.5]
5 a)	What is operator overloading? Overload +operator to concatenate 2 strings?
b)	Explain different types of constructors using suitable examples? [7.5]
2	UNIT-III
(b)	Define Inheritance and explain its different types using program code? [7.5] What is pure virtual function and explain when it is used with program code? [7.5]
7 a)	Differentiate between composition and containership with program code? [7.5]
b)	What is run time polymorphism? Explain with program code? [7.5]
اء دا	Explain C++ stream classes using suitable examples? [7.5]
3 a) b)	Write a program in C++ to create generic class for stack operations? [7.5]
V	Write a program in C++ to read content from one file and write in another? [7.5]
	What is the standard template library and explain iterators and rectors? [7.5]
