Code No: R2021051 (R20) (SET - 1

## II B. Tech I Semester Supplementary Examinations, July - 2023 OBJECT ORIENTED PROGRAMMING THROUGH C++

(Com to CSE, IT)

Tin	ne: 3	S hours Max. Mar	ks: 70
		Answer any <b>FIVE</b> Questions, each Question from each unit All Questions carry <b>Equal</b> Marks	
		UNIT-I	
1	a)	List the drawbacks of conventional programming. Explain how object oriented	[7 <b>N</b>
	b)	programming overcome them.  Mention the similarities and differences between C and C++	[7 <b>N</b>
	U)	Or	[/1
2	a)	Explain the key concepts of Object Oriented Programming.	[7N
_	b)	Briefly write about the evolution of C++.	[7N
	- /	UNIT-II	Ľ.
3	a)	How will you destroy the objects initialized by the constructor in the program?	[7N
	b)	Write a C++ program, which illustrates the concept of Nested class.	[7 <b>N</b>
		Or	
4	a)	What is the use of a constructor? Explain default, parameterized and copy constructors with suitable examples.	[7 <b>N</b>
	b)	Write a C++ program illustrating Exception overloading.  UNIT-III	[7N
5		Describe the three different inheritance behaviors achieved through the use of pure virtual, ordinary virtual and non-virtual functions.  Or	[14 N
6	a)	Differentiate between hierarchical inheritance and hybrid inheritance with an example.	[7N
	b)	What is a virtual base class? Why it is important to make a class virtual?	[7 <b>N</b>
		UNIT-IV	
7	a)	What is polymorphism? How it is achieved at compile time and runtime? Explain both with the help of example.	[7N
	b)	Discuss in detail about virtual destructors.	[7 <b>N</b>
		Or	
3	a)	Write a C++ program that declare and use pointer to an object.	[7 <b>N</b>
	b)	Describe the mechanism of creating virtual functions in C++ with an example.  UNIT-V	[7N
9	a)	Explain the components of Standard Template Library (STL).	[7N
	b)	Write a C++ program that fills a vector with random numbers.	[7N
	,	Or	_
10	a)	Write a C++ program that erases all elements in a list using iterators.	[7 <b>N</b>
	b)	Explain about different types of containers.	[7N
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1 of 1

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