Code No: R1921055

R19

SET - 1

II B. Tech I Semester Supplementary Examinations, September - 2021
OBJECT ORIENTED PROGRAMMING THROUGH C++
(Computer Science & Engineering)

Time: 3 hours Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks
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1	a)	What are the differences between Procedure Oriented Language and Object-Oriented Language?	[8M]
	b)	What are the key concepts of Object-Oriented Language? Explain briefly.	[7M]
		Or	
2	a)	Define a class named 'Train' representing following members: Data members: - Train Number, Train Name, Source, Destination, Date of Journey, Capacity and Member functions: - Initialize members, Input train data, and display data. Write a C++ program to test the train class?	[8M]
	b)	In which order the constructors and destructors are executed? Explain with an example.	[7M]
3	a)	Explain Access specifies and their scope with suitable examples.	[7M]
	b)	Write a C++ program to illustrate multiple and multilevel inheritance.	[8M]
		Or	
4	a)	Explain different types of type conversion in C++.	[7M]
	b)	What are the rules for overloading operators?	[8M]
5	a)	Write a C++ program to add two complex numbers with the help of overloading '+' operator.	[8M]
	b)	Write a program to implement Run Time Polymorphism in C++.	[7M]
		Or	
6	a)	Illustrate the use of this pointer with an example?	[7M]
	b)	Explain static and dynamic binding in C++.	[8M]
7	a)	Explain use of friend function with the help of suitable example.	[8M]
	b)	State the reason for making a class virtual with the help of example program.	[7M]
		Or	
8	a)	What do you mean by Abstract class? Explain with example.	[7M]
	b)	Describe the use of call by value and call by reference with suitable example.	[8M]
9	a)	Write a C++n program to illustrate multiple catch statements?	[7M]
	b)	Illustrate the exception handling mechanism.	[8M]
		Or	
10	a)	What is a class template? How is it different from a general class? Explain with an example.	[7M]
	b)	Write a program to create a template function for bubble sort and demonstrate the sorting of integers?	[8M]

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