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Third Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Object Oriented Programming with C**

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks , L: Bloom's level , C: Course outcomes

		Module - 1	M	1.	€.
Q.1	а	, What is meant by constructor. This case the types of some details in	07	1.2	COT.
	b	with example. Demonstrate with example, how friend functions, friend classes and inline functions are useful in C++.	67	1.2	COL
	e.	Annual the general format of a C++ program	06	Ĺ3	100
		OR			
Q.2	a.	List the various access specifiers supported by OOPs. Illustrate their use.	07		COL
	b.	C + 1' 1 1 - C - time a to C' 1'		L2	COI
	c.	1011 1011 10	06	L2	CO1
		Module – 2			
Q.3	a.	Develop a object oriented program to find the smallest and biggest among array elements.	07	L3	CO2
	b.	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	07	L2	CO2
	c.	Explain different array type in C++ with suitable example code snippet.	06	L3	CO2
		OR			
Q.4	a.	What is "this" pointer? Illustrate the use of "this" pointer in C++.	07	L2	002
	b.	Discuss when two or more functions are said to be overloaded. Identify the causes of ambiguity in function overloading.	07	L2	002
	c.	What is a dynamic constructor? Explain with an example program.	06	L3	CO2
		Module – 3	,		
Q.5	а.	List the operators in C++ that can not be overloaded. Develop a C++ program using "Time" class, to overload the '+' and '-' operators.	07	L3	CO3
	b.	Illustrate the role of access-specifiers in different level of inheritances.	07	L2	CO3
	c.	Discuss various types of inheritances with suitable example codes.	06	L3	CO3
		OR	_		
2.6	я.	Illustrate the use of constructors and destructors in inheritance in C++.	07	L2	CO3
		Develop a program in C++ to derive a class "Manager" from class "Person" and "Employee". Consider suitable data members and member-functions	07	L3	CO3
	c.	for the classes. Explain "Virtual base Class" with an example.		L3	. čo2

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0.7	a.	The Cold program demonstrating the use of the Fund vibration	07	L3	CO4
Q.7	a.		07	L3	CO4
	b.	what is polymorphism in C++? Explain its types with example. Explain virtual function in C++. Discuss what is early and late binding.	06	L2	CO4
Q.8	a.	What are generic functions? Demonstrate the use of generic function in	07	L2	CO4
	b.	What is typename and export keyword? Discuss their usage. Discuss the	07	L2	CO4
	Ç.	advantages of using templates in C++. Explain the use of a class template. Also explain class template with suitable code snipplet.	06	1.3	CO4
		Module – 5		1	
Q.0	a.	Explain the fundamentals of exception handling in C++. Analyze the	07	L2	CO5
		benefits of exception handling.	07	L2	CO5
	<u></u> в.	Discuss different standard exceptions in C++. Develop a C++ program to demonstrate the usage of try, catch and through to handle exceptions.	06	-	CO5
_		OR			
Q.10	a.	What are the different file opening modes in C++? Compare and contrast	07	L2	CO5
	-	file opening modes.	06	5 L3	CO5
	b. c.	Explain file streams with example. Develop a C++ program to create a text file, check file is created or not, it created, write some text in to the file and the read and display the text from the file.	07	7 L3	CO5

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