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CBCS SCHEME

VICINI		BCS3066
USN		DC33003

Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Object Oriented Programming with C++

Time: 3 hrs.

Max. Marks: 100

Note: I. 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	L	C
Q.1	a.	What is object oriented programming? Explain the structure of C++ program.	10	Li	CO
	b.	What is Friend function? Explain with an example.	10	L2	co
	****	OR			
Q.2	a.	What is constructors and destructors? Explain the scope resolution operator with an syntax.	10	L2	CO
	b.	How objects are passed to the functions, explain with an example?	10	L2	CO
		Module – 2	1	-	
Q.3	a.	Explain array of pointers to objects and accessing member functions using pointers.	10	L3	CO:
	b.	Explain the following terms with an example: (i) Pointers to class members. (ii) The this pointer. OR	10	L3	CO
Q.4	a.	Write a C++ program to demonstrate function overloading for the following prototypes, add (int a, int b) add (double a, double b)	10	L3	CO
X	b.	Write the various function overloading used to "default function argument" and "ambiguity".	10	L2	CO
		Module 3			
Q.5	a.	Explain with example, overloading of unary operator '+'.	10	LZ	CO:
	b.	Discuss the overloading operator using keywords 'new' and 'delete'. OR	10	L3	CO
Q.6	a.	What is inheritance? Explain with an example of inheriting the multiple base classes.	10	L3	CO
	b.	How multiple base classes are inherited using virtual base classes?	10	1.3	CO
1190	-	Module – 4			
Q.7	a.	Explain with example, virtual functions are hierarchical.	10	L3	CO4
	b.	What is pure virtual function? Explain with example, generic function using template.	10	L3	C04
1		OR		-	-
Q.8	a.	Explain the difference between Early and Late binding.	10	1.3	CO4
_	-	1 of 2			

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	b.	Discuss the following terms: (i) Using non-type arguments with generic classes. (ii) Using default arguments with template classes.	10	L3	CO4
	-	Module – 5	1	-	
Q.9	a. Discuss fundamentals of exception handling.			L2	CO5
	b.	Discuss catching all exceptions and rethrowing an exception with examples.	10	L2	CO5
		OR			
Q.10	a.	Explain the following formatted I//O: (i) width () (ii) precision (iii) fill ()	10	1.4	C O6
	b.	How file opening and closing is done? What are the functions required for reading and writing data in a file. Explain with example.	10	L3	CO6

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