Roll No. _____

END SEMESTER EXAMINATION
SEMESTER-III

COURSE CODE : CSE-502 **DURATION : 3 (THREE)HRS**
COURSE TITLE : OBJECT ORIENTED PROGRAMMING **MAXIMUM MARKS : 75**
SESSION : JULY-DEC'2021 **PASS MARKS : 35 %**

NOTE: *1. Attempt any 5 (five) questions.*
2. Mark for each question is shown against it.
3. Assume suitable logical data wherever necessary.

1.	**(a)**	Define OOP?	(2)
	(b)	Write a C++ program to calculate and display the area of four rectangles using class and objects?	(8)
	(c)	What are the various types of inheritance?	(5)
2.	**(a)**	Write a short note on: i) compile-time polymorphism ii) run-time polymorphism	(8)
	(b)	List five characteristics of a constructor?	(5)
	(c)	Define friend function?	(2)
3.	**(a)**	Describe the need of templates in detail?	(6)
	(b)	Define string?	(2)
	(c)	List five features of a friend function?	(5)
	(d)	What is inheritance?	(2)
4.	**(a)**	Write a short note on: i) bytecode ii) JVM	(6)
	(b)	Write a C++ program to handle multiple exceptions?	(6)
	(c)	Define array?	(3)
5.	**(a)**	Write the use of following string manipulating functions with example: i) at( ) ii) find( ) iii) find_first_of( ) iv) find_last_of	(12)
	(b)	What is the use of eof( ) function?	(3)
6.	**(a)**	What is STL?	(3)
	(b)	Define the following STL components: i) container ii) algorithm iii) iterator	(6)
	(c)	Give a brief introduction to java?	(4)
	(d)	What is javadoc?	(2)
7.	**(a)**	Describe exception handling mechanism in C++ with syntax and example?	(9)
	(b)	With the help of an example program explain the use of virtual functions?	(6)
8.	**(a)**	Describe the two methods of opening a file?	(6)
	(b)	What do you mean by operator overloading?	(3)
	(c)	Write a program to overload a binary operator?	(6)

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