

 <p>Dr. Vishwanath Karad MIT WORLD PEACE UNIVERSITY PUNE TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS</p>	Class Continuous Assessment Component with Rubric
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Course Name: Object Oriented Programming with C++ and Java **Course Code:** CET1042B

A.Y.: 2022_23 Class: S. Y. B. Tech. CSF Semester: III

Name of Component: Theory Assignment No 1

Weightage: 10 Marks

Batch: A1			
Q. No	Question	Mapped CO	Bloom's Level
Q1.	Explain various features of Object Oriented Programming also note down applications of OOP in various domains.	CO1	2
Q2.	Explain difference between compile time polymorphism and run time polymorphism.	CO2	2
Q. 3	Create a Java program, to find the factorial of a number using default constructor and parameterized constructor.	CO2	6
Q. 4	Create a C++ program that creates a class “Arithmetic” which contains integer data members. Overload all the four arithmetic operators so that they operate on the objects of “Arithmetic”.	CO2	6
Batch: A2			
Q. No	Question	Mapped CO	Bloom's Level
Q1.	Explain friend function and friend class in object oriented programming	CO1	2
Q2.	Explain static variable and static function along with sample C++ program.	CO1	2
Q3.	Discuss the role of virtual table along with virtual function in C++.	CO2	6
Q4.	<p>Create a Java program that define a class Library to represent a Library system. Data members should include the Book ID, Book title, Book author, and price. Member functions should allow the following:</p> <ul style="list-style-type: none"> ▪ Creating an object and initializing it. ▪ Displaying the Book ID, Book's Title, Book author, and price. ▪ Search book using book id. ▪ Use new to create object and delete object. 	CO2	6



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Batch: A3			
Q. No	Question	Mapped CO	Bloom's Level
Q1.	Explain abstraction and encapsulation and justify how they relate with each other	CO1	2
Q2.	Explain difference between procedural and object oriented languages	CO1	2
Q3.	Explain the use of abstract class and abstract method. Write a java program to demonstrate use of abstract class and abstract method.	CO2	6
Q4.	Write C++ program for matrix addition using operator overloading.	CO2	6
Batch: A4			
Q. No	Question	Mapped CO	Bloom's Level
Q1.	Discuss the different type inheritance along with suitable example	CO1	2
Q2.	What is inline function? Explain how it is different than normal function? When should prefer to use inline function.	CO1	1,2
Q3.	How to implement multiple inheritance in Java. Write the Java program to explain the use of interfaces in java.	CO2	6
Q4.	Write a C++ program to demonstrate use of pure virtual function.	CO2	6
Batch: A5			
Q. No	Question	Mapped CO	Bloom's Level
Q1.	What is implicit and explicit type conversion? What is type casting in C++?	CO1	2
Q2.	Where we use abstract and final keyword? Explain with suitable examples.	CO1	1,2
Q3.	Differentiate between static and dynamic allocation of memory. Write a C++ program to demonstrate static and dynamic allocation of memory.	CO2	6
Q4.	What do you mean by super () and this () keyword? Write the java program to demonstrate use of super () and this () keyword?	CO2	6

Date of Assignment: 28-09-2022

Date of Submission: 7-10-2022

Name of Course Teacher: Dr Vinayak Musale