ASSIGNMENT-II

Branch/Semester	B.Tech/Fall semester	Session	2024-2025
Name of Faculty	Dr. Jitendra P S Mathur	**Subject**	**Object Oriented Programming With C++**
Module	2 and 3	Sub Code	CSE-2001
Last date of Submission	12.07.2024		Through Google classroom

S.No	Questions	CO Attainment
1	What is Class? Explain how function is defined inside the class and outside the class with example?	CO.2
2	Assume the, "Customer, Account, Transaction, and Loan" are different classes of an online banking system. According to UML class diagram representation do the following: a) Represent class diagram including attributes and operations with possible visibility modes for all these classes. b) Show association relationship between "Customer and Account", "Customer and Loan" with multiplicity and association name. c) Show possible specialization for the class account.	CO.2
3	Discuss the significance of a constructor and destructor in C++. What happens if a destructor is not explicitly defined in a class.	CO.2
4	Write a program to narrate use of inline functions. Also discuss whether the request to make a function as inline is always granted by the compiler?	CO.2
5	Create the c++ program code to class called 'student' with Data members: name (char type), marks1, marks2 (integer type) The program asks the user to enter name and marks. Then calc_media () calculates the media note and disp () display name and total media mark on screen in different lines.	CO.2
6	With example explain Friend class and Friend function. What are the properties of friend function	CO.2
7	Explain public, private and protected access specifiers and show their visibility when they are inherited as public, private and protected	CO.2
8	Explain the concepts of "Polymorphism" and "Function overriding" related. Write a C++ program in support of your answer to override area () function which calculates area of circle in parent class and area of square in child class.	CO.3