



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:II
Class:FY	Program:B.Tech
Branch Code:FYE	Pattern:2023
Name of Course:Programming in C++	Course Code:2300109A
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1a) What is a Friend Function? Explain with suitable coding example. (6) CO1

Question No. 2

- 2a) What are different types of inheritance in C++, explain with suitable diagrams. (6) CO2

Question No. 3

- 3a) What is function overloading. Explain with suitable example. (8) CO3

OR

- 3b) What is pointer in C++. List advantages of pointers. (8) CO3

- 3c) Write a C++ program to overload area() function to calculate area of shapes like triangle, square, circle. (8) CO3

OR

- 3d) Write a C++ program to maintain Employee database using virtual class (8) CO3

Question No. 4

- 4a) Explain Exception handling in C++. (8) CO4

OR

- 4b) Develop a C++ program to Create a class of employees (data members - name, DOB, mobile). Develop a function to accept the data and display the information. Use exception handling while accepting the data. e.g in DOB day value should be in between 1 to 31, month value should be in between 1 to 12. (8) CO4

- 4c) What is a template? Explain use of a template with the help of suitable code. (8) CO4

OR

- 4d) Write a C++ program to build simple calculator using class template. (8) CO4

Question No. 5

5a) Explain different file handling operations with a help of suitable code. (8) CO5

OR

5b) Write a simple C++ program to write and read content in the file. (8) CO5

5c) Write a program to count the number of occurrence of a particular character in text file. (8) CO5

OR

5d) Write a C++ program to find and replace a specific word in a text file. (8) CO5

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