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MASTER OF COMPUTER APPLICATIONS
EXAMINATION : JANUARY- 2025
SEMESTER - II

Sub : Object Oriented Programming using C++ (MCA- 203-22)

Date : 02/01/2025

Total Marks : 60

Time: 10.00 am to 12.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. Compare the variables and constants in C++
2. What is purpose for inline function?
3. What is the use of this keyword in C++?
4. What is the file stream?
5. How dynamically allocate memory in c++?
6. Give the Comparison between late binding and early binding
7. Give difference between c and c++.

Q. 2. Answer the following in short. (Any 4) (20)

1. Describe the use of public, private and protected access specifiers and their visibility in the class.
2. What is exception? Illustrate with example to throw an exception.
3. Explain file pointers.
4. Explain virtual function and pure virtual function with example.
5. Explain function overloading with example.
6. Why we use getline() and write () functions, explain with example

Q. 3. Answer the following in detail. (Any 3) (30)

1. What is destructor? List types of constructor. Explain any two types of constructor
 2. Explain friend function with example.
 3. Define operator overloading? Explain how to overload unary operator and binary operator.
 4. What does inheritance means in c++? What are different forms of inheritance? Give an example of any two?
 5. Explain object oriented concepts in C++.
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