

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : MAY - 2024
SEMESTER - II

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

Date : 24/05/2024

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. Give significance of 'protected' access specifiers.
2. What is default argument?
3. Give the syntax for tell p () and tell g ()
4. Show the difference between C and C++
5. What are operators cannot be overloaded?
6. What are manipulators?
7. What is abstract class?

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

1. What is inline function? How they are useful?
2. What are Virtual functions? How they are different from Pure Virtual functions?
3. What is friend function? Explain with example.
4. Explain function overloading with example.
5. Write note on 'this' pointer.
6. Explain how to allocate and deallocate memory dynamically.

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

1. What do you mean by exception handling? How exceptions are handling is done in C++ .Illustrate with example.
2. Define inheritance. What are various type of inheritance? Explain any two type with suitable example.
3. What is constructor? Explain any two type of constructor with example.
4. Write a c++ program to overload '+' operator.
5. Explain object oriented concept.
