

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : JUNE / JULY- 2022
SEMESTER - II

Sub: Object Oriented Programming - (MSC 201-19)

Date : 29/06/2022

Total Marks : 60

Time: 2.00 pm to 04.30 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 diagrams wherever necessary.
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Q.1 Answer the following in 2-3lines. (Any 5) (10)

1. How virtual function implemented in c++
2. What is Destructor?
3. Give difference between c and c++
4. How memory dynamically allocated in c++?
5. What is Inline function?
6. What is difference between call by value and call by reference?
7. What are operators cannot be overloaded?

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

1. What is friend function?
2. What is 'this' pointer?
3. Explain "Access Specifiers" in details?
4. Explain function overloading with example.
5. explain the following function:
i) seekp() ii) get() iii) seekg() iv) getline()
6. Write a program to overload '+' operator.

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

1. What are different types of constructor? Explain any two types in detail.
2. Explain object oriented programming concept in detail.
3. What is Exception? Explain catchall statement with example.
4. What is inheritance? What are types of inheritance? Explain any two types.
5. Explain rules for virtual function.