

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS**  
**EXAMINATION : DECEMBER-2022**  
**SEMESTER - II**  
**Sub: Object Oriented Programming - (MSC 201-19)**

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**Date : 20/12/2022**

**Total Marks : 60**

**Time: 2.00 pm to 04.30 pm**

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**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. What are the parameters passed to seekg() function?
2. What is pure virtual function?
3. What are the operators cannot be overloaded?
4. What is difference between class and structure?
5. What is file?
6. State use of new operator
7. What is difference between procedure oriented and object oriented programming.

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

1. What is exception? Explain with example of try, throw and catch statement.
2. Explain the inline function? When the inline function may not work?
3. State the use of scope resolution operator and its use in C++.
4. What is friend function? Explain with example.
5. What is the use of 'this' keyword in C++?
6. What is constructor? Explain overloaded constructor.

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

1. What are the rules of operator overloading?
2. What is inheritance? Explain multiple inheritance and multilevel inheritance with example.
3. What is function overloading? Explain with example.
4. Explain the process of open, read, write and close files?
5. Describe the basic concepts of OOPS