Roll No. .....

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### BT-3/D-21

# 44152

#### OBJECT ORIENTED PROGRAMMING

# Paper-PC-CS-203

[Time : Three Hours] [Maximum Marks : 75]

**Note :** All questions carry equal marks. Attempt any five questions in all

#### UNIT-I

- **1.** a) What is an inline substitution?
  - b) What is meant by break statement? How it is involved in constructing a multiway switch-case structure?
- **2.** a) What are destructors. When they are called and what is their utility?
  - b) In what way destructor is different from delete operator?

#### UNIT-II

- **3.** a) How can private members be accessed using pointers?
  - b) What is the difference between array of pointers and pointer to the array?
- **4.** a) Why is the "assignment" operator function not inherited. Explain.
  - b) Under what circumstances overloading using friend function

#### UNIT-III

- 5. a) Write an object oriented program in C++ to read set of lines and find out the number of characters, words and lines in a given text.
  - b) What is the difference between early binding and late binding in C++?
- **6.** a) What are the differences between static and dynamic memory?
  - b) What is inheritance? How does inheritance influence the size and functionality of derived class objects?

## UNIT-IV

- **7.** (a) Explain the concept of Virtual and Pure Virtual Functions with the help of examples.
  - (b) What is exception handling? What will happen if an exception is thrown for which no matching catch() block is defined?
- **8.** (a) Explain how array of class objects can be stored and retrieved from a file?
  - (b) What is a Template? What is the difference between template and macros. Create a template for displaying the reverse of string function.