Total Pages: 2

BT-3/D-21

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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.

- **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?
- **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 becomes necessary ?
- **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?
- 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 retreived 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.