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**B.Sc. IT (Sem. – 3<sup>rd</sup>)**  
**PROGRAMMING IN C++**  
**SUBJECT CODE : BS - 205**

**Paper ID: [B0411]**

[Note : Please fill subject code and paper ID on OMR]

**Time: 03 Hours****Maximum Marks: 60****Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

**Section - A****Q1)****(10 × 2 = 20)**

- a) What are the uses of scope resolution operator? Explain?
- b) What are the merits of private inheritance?
- c) What are the various file opening modes? List them.
- d) In what way a destructor is different from delete?
- e) Differentiate between reference variable and a pointer.
- f) What is the relevance of static variable in a class?
- g) What do you mean by pure virtual functions?
- h) Write note on inline function.
- i) Write note on recursion.
- j) Show how to allocate a double and an int by using new.

**Section - B****(4 × 10 = 40)**

- Q2)** (a) Differentiate between call by reference and call by address.
- (b) What do you understand by object oriented Languages? Explain the features of OOPs.

- Q3)** Write note on Private, Public and protected access specifiers. Explain with the help of a class Inventory and show how can we access the private member?
- Q4)** Develop a Class Complex in C++. Class must use constructor overloading and use display and add function to show the output and add two complex numbers respectively?
- Q5)** Describe the syntax of multilevel inheritance. When such an inheritance is used? Explain with a suitable program?
- Q6)** Write a program in C++ to copy the content of one text file to another text file using command line arguments?
- Q7)** What do you mean by operator overloading? Explain the concept with overloading of arithmetic operators on any class of your choice.

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