Seat No.

B.C.A. (Part - II) (Semester - III) Examination, November - 2015
OBJECT ORIENTED PROGRAMMING WITH C++
Sub. Code : 63399

Day and Date : Tuesday, 17 - 11 - 2015   **Total Marks : 80**
Time : 03.00 p.m. to 6.00 p.m.
Instructions: 1)   **Attempt any FIVE questions.**
                      2)   **Question No. 8 is compulsory.**
                      3)   **All questions carry equal marks.**

Q1) a)   Draw and explain object oriented programming paradigm.   **[8]**

      b)   Explain various disadvantages of procedure oriented programming. **[8]**

Q2) a)   What is class? Explain how data abstraction and encapsulation concepts
           implemented in C++.   **[8]**

      b)   Explain various control statements in C++.   **[8]**

Q3) a)   What is friend function? Explain its usage with suitable example. **[8]**

      b)   What is inline function? Explain with suitable example.   **[8]**

Q4) a)   What is static member function? Explain characteristics of static member
           function.   **[8]**

      b)   What is constructor? Explain various types of constructors in C++ **[8]**

Q5) a)   What is operator overloading? Explain binary operator overloading using
           friend function.   **[8]**

      b)   What is virtual base class? Explain usage of virtual base class with suitable
           example.   **[8]**

P.T.O.

Q6) a) What is Inheritance? Explain multiple inheritance with suitable example.[8]

b) What is virtual function? Explain its usage with suitable example. [8]

Q7) a) What is stream? Describe various stream classes in C++ [8]

b) Write a program in C++ to accept data of five students from user and write it to file. [8]

Q8) Write short notes on (Any two) [16]

a) Destructor in C++

b) Class and object

c) Manipulators in C++

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