

Seat No.	
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**BCA (Part - II) (Semester - III) Examination, April - 2015**  
**OBJECT ORIENTED PROGRAMMING WITH C++ (New)**  
**Sub. Code : 63399**

**Day and Date : Wednesday, 22 - 04 - 2015**  
**Time : 11.00 a.m. to 02.00 p.m.**

**Total Marks : 80**

- Instructions :**
- 1) Attempt any FIVE questions.
  - 2) Question No. 8 is compulsory.
  - 3) All questions carry equal marks.

- Q1)** a) Differentiate between procedure oriented programming and object oriented-programming. [8]  
b) Explain structure of C++ program. [8]
- Q2)** a) Explain various data types in C++ [8]  
b) What is data abstraction? Explain how data abstraction is implemented in C++. [8]
- Q3)** a) What is virtual function? Explain virtual function with suitable example. [8]  
b) Define operator overloading? Explain how it is used for type casting. [8]
- Q4)** a) Explain overloading binary + operator to perform concatenation of two strings using friend function. [8]  
b) What is function overloading? Explain various rules of function overloading. [8]
- Q5)** a) Explain various manipulators in C++. [8]  
b) What is stream? Explain various stream classes in C++. [8]

**P.T.O.**

- Q6)** a) What is pure virtual function? Explain with suitable example. [8]  
b) What is polymorphism? Explain compile time polymorphism in C++. [8]

- Q7)** a) What is array? Explain array of object with suitable example. [8]  
b) What is constructor? Explain parameterized constructor in detail [8]

- Q8)** Write short notes on (Any two) : [16]  
a) Destructor in C++  
b) Pointer in C++  
c) Call by reference in C++

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