



Seat No.	
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SA - 431

Total No. of Pages : 1

**B.C.A. (Part - II) (Semester - III) (Faculty of Commerce)  
Examination, May - 2019**

**OBJECT ORIENTED PROGRAMMING WITH C++**

**Sub. Code : 63399**

**Day and Date : Tuesday, 07 - 05 - 2019**

**Total Marks : 80**

**Time : 10.30 a.m. to 01.30 p.m.**

- Instructions:**
- 1) Each question carries 16 marks.
  - 2) Solve any FOUR questions from Q.1 to Q.7
  - 3) Q.8 is compulsory.

- Q1)** Explain different types of operator in C++ with example. [16]
- Q2)** a) What is class? Explain array of object with example. [8]  
b) Explain function overloading with example. [8]
- Q3)** a) What is static variable? Explain static data member with example. [8]  
b) What is destructor? Explain how it differs from constructor. [8]
- Q4)** Write object oriented program to accept range and display palindrome numbers between accepted range. [16]
- Q5)** What is inheritance? Explain multilevel inheritance with example. [16]
- Q6)** What is constructor? Explain constructor overloading with example. [16]
- Q7)** What is file? Explain file pointer and file opening modes with example. [16]
- Q8)** Write short notes on (any four): [16]
- a) Characteristics of OOP
  - b) Identifiers
  - c) Cout
  - d) Virtual function
  - e) Friend function

