E-268

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Seat No.	

B.C.A. (Part - II) (Semester - III)
Examination, October - 2016
OBJECT ORIENTED PROGRAMMING WITH C++
Sub. Code : 63399

Day and Date : Thursday, 27 - 10 - 2016 **Total Marks : 80**

Time : 2.30 p.m. to 5.30 p.m.

Instructions : **1)** **Attempt any 4 questions from Q1 to Q7.**
2) **Q.8 is compulsory.**
3) **Figures in right side indicate full marks.**

Q1) a) What is inline function? Explain importance of inline function with help of example. **[8]**

b) Define function overloading. Write a program to calculate area of circle, triangle and rectangle using function overloading. **[8]**

Q2) a) What is mean by static data member and member function? Explain with example. **[8]**

b) What is OOP? Explain features of OOP's. **[8]**

Q3) a) Explain importance of friend function with proper example. **[8]**

b) Define class and object. Write a program to enter 3 digit numbers and display sum of digits using class. **[8]**

Q4) a) What is constructor? Explain different types of constructor with syntax and example. **[8]**

b) Write a program to create employee pay slip using multilevel inheritance. **[8]**

Q5) a) Define polymorphism. Explain types of polymorphism with example. **[8]**

b) What is file stream? Which operations are used for file manipulation? **[8]**

P.T.O.

Q6) a) Write C++ program to interchange values of two object of same class using friend function. **[8]**

b) Explain data types used in C++ with suitable example. **[8]**

Q7) a) What is encapsulation? Explain its importance with suitable example. **[8]**

b) Write a C++ program to accept marks of student for 5 subjects and calculate result using array of object. **[8]**

Q8) Write short notes (Any Two): **[16]**

a) Destructor.

b) Constant and variable.

c) Pure virtual function.

d) Dynamic Binding.