Seat No.

B.C.A. (Part - II) (Semester.- III) Examination, November - 2017
OBJECT ORIENTED PROGRAMMING WITH C++
Sub. Code : 63399

Day and Date : Wednesday, 01 - 11 - 2017

Time : 10.30 a.m. to 01.30 p.m.   Total Marks : 80

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

Q1) a)   Explain constants and variables used in C++.   **[8]**

b)   Write a program to find volume of cube, cylinder, and rectangular box using function overloading.   **[8]**

Q2) a)   Explain importance of constructor and destructor in C++.   **[8]**

b)   Define array. Write a program to display student information using array of object.   **[8]**

Q3) a)   What is pointer? Explain pointers in C++ with help of example.   **[8]**

b)   What is inheritance? Explain multilevel inheritance with example. **[8]**

Q4) a)   Write a C++ program to display prime numbers between 1 to 50 using class.   **[8]**

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

Q5) a)   Define friend function. Explain characteristics of friend function with help of example.   **[8]**

b)   Explain static data member and member function with example.   **[8]**

Q6) a)   What is polymorphism? Explain types of polymorphism with example. **[8]**

b)   Define file stream. Which are the file stream operations for input and output?   **[8]**

Q7) a) Write a program to accept Account information of person and perform different account transactions using hierarchical inheritance. **[8]**

b) What is inline function? Explain advantages and limitations of inline function. **[8]**

Q8) Write short notes (Any 2) **[16]**

a) Pure virtual function

b) Encapsulation

c) Class and object

d) Data types

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