BAM-2303 Seat No.________
M. Sc. (Sem. - II) (CA & IT) Examination
April/May – 2014
203 : Object Oriented Programming

Time : 3 Hours] [Total Marks : 70

1  (a) Answer the following :
   (i) What is the difference between OOP and procedure oriented programming ?
   (ii) Discuss reference variable in short.
   (b) Answer the followning : (any two) 12
      (i) Explain the basic concepts of OOP.
      (ii) Write short note on data types in C++.
      (iii) Explain scope resolution operator with example.

2  (a) Do as directed : 6
   (i) Differentiate : Structure and class.
   (ii) Define : Static variable.
   (iii) Define : Destructor
   (b) Answer the following : (any two) 12
      (i) What is constructor ? Explain copy constructor with example.
      (ii) What is function overloading ? Explain with example.
      (iii) In which situation we require friend function ? Write a program using friend function.
3  (a) Do as directed :
   (i) Which operators cannot be overloaded? And 
       also list out operators that cannot overload by 
       friend function.
   (ii) Discuss: Pointer to object in short.

(b) Answer the following: (any two) 12
   (i) What is operator overloading? Explain binary 
       operator overloading with example.
   (ii) Describe unary operator overloading using 
       friend function.
   (iii) What is type conversion? Write a program 
       to convert basic to class type.

4  (a) Do as directed :
   (i) Define: Pure virtual function.
   (ii) Define: This pointer
   (iii) How can you open and close the file in C++?

(b) Answer the following: (any two) 12
   (i) What is inheritance? Explain multiple 
       inheritance with example.
   (ii) What do you mean by virtual base class? 
       Explain in brief.
   (iii) Write a CPP program of working with multiple 
       file.