



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 follownig : (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 : **5**
- (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 : **6**
- (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.
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