GAV-3351   Seat No._____

B. C. A. (Sem. III) Examination

November / December – 2013

BCA - 301 : Object Oriented Programming Language Using C++

Time : 3 Hours]   [Total Marks : 70

1   (a)   Do as directed :   6

    (i)   What is class ?

    (ii)   Define : Inheritance.

    (iii)   Define : Dynamic binding.

    (iv)   What is the use of delete operator ?

    (v)   What is the use of endl ?

    (vi)   Scope resolution operator have highest precedence. (T/F)

  (b)   Attempt the followings : (any three)   12

    (i)   Compare : Procedural oriented language v/s object oriented language.

    (ii)   Explain the memory management operators.

    (iii)   Explain scope resolution operator with example.

    (iv)   Explain switch statement with syntax and example.

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2 (a) Do as directed.
      (i) In which situations we can not use inline function ?
      (ii) What is the use of Destructor ?
      (iii) Define : function overloading.
      (iv) Difference : Call by value v/s call by reference.
      (v) Constructors are invoked automatically when the objects are created. (T/F)

  (b) Attempt the followings : (any **two**)   12
      (i) Explain function overloading with example.
      (ii) Explain copy constructor with example.
      (iii) Explain static member function with example.

3 (a) Do as directed :   6
      (i) List out the operators which can not be overloaded.
      (ii) Is it necessary to overload an operator ? Why ?
      (iii) Write down systex for operator function.

  (b) Attempt the followings : (any **three**)   12
      (i) Write a program to overload binary plus operator.
      (ii) Explain type conversion with class to class.
      (iii) Explain the rules for operator overloading.
      (iv) Explain string manipulation using operator overloading.

(a) Do as directed : 5

    (i)   What is visibility modifier ?

    (ii) Define : Abstract Class

    (iii) What is pure virtual function ?

    (iv) List out all kind of inheritance.

    (v) We can have virtual destructors but not virtual constructors. (T/F)

(b) Attempt the followings : (any two)   12

    (i)   Explain multiple inheritance with example.

    (ii) Explain virtual base class with example.

    (iii) Explain virtual function.

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