JAH-1651   Seat No._____

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

November / December – 2012

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

Time : **3** Hours]   [Total Marks : **70**

1   (a)   Do as directed :   **6**

   (i)   What is object ?

   (ii)   What is used of Endl operators ?

   (iii) Which operators is used with Cout & C in ?

   (iv)   Which symbol is used for scope resolution operator ?

   (v)   What is chained assignment expansion ?

   (vi)   What is bool data type ?

   (b)   Attempt the following : (any **three**)   **12**

   (i)   Explain the concept of oops.

   (ii)   Explain memory management operator.

   (iii) Explain the used define data type.

   (iv)   Explain special assignment expansion.

2   (a)   Do as directed :   **5**

         (i)   What is const argument ?

         (ii)   What is used of destructor ?

         (iii)   The static member variables must be define outside the class. (True/False)

         (iv)   Constructor is automatic call when object is created. (True/False)

      (b)   Attempt the following : (any **three**)   **12**

         (i)   Explain function overload with example.

         (ii)   Explain Friend function.

         (iii)   Explain paramenerized constructor.

         (iv)   Explain the default argument.

3   (a)   Do as directed :   **6**

         (i)   List out which operator can not be overload using Friend function.

         (ii)   List out condition of casting operators.

         (iii)   How to define operator function ?

      (b)   Attempt the following : (any **three**)   **12**

         (i)   Explain the basic to class and class to class, connection.

         (ii)   Write a prog. to overload binary operator.

         (iii)   Explain binary and binary operator overloads method and condition.

         (iv)   Write a prog. to overload binary operator for complex number using Friend function.

4 (a) Do as directed : **5**

    (i) What is polymorphism ?

    (ii) What is ambiguity in inheritance ?

    (iii) What is pure virtual function ?

    (iv) What is used of $\rightarrow$ operator ?

    (v) What is static linking ?

(b) Attempt the following : (any **three**) **12**

    (i) Explain the hybrid inheritance.

    (ii) Explain the virtual base class.

    (iii) Explain the virtual function.

    (iv) Explain the This pointer.

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