KKP-6141   Seat No. 2055

B. C. A. (Sem. - III) Examination
November / December – 2014
BCA-301 : Object Oriented Programming C++

Time : 3 Hours]   [Total Marks : 70

1   (a)   Do as directed :   6
   (i)   What is object ?
   (ii)   What is bool data type ?
   (iii) Which symbol used for scope resolution
          operator in C++.
   (iv)   What is use of delete operator ?
   (v)   What is inheritance ?
   (vi)   C++ allows us to declare a variable
          anywhere in the program. (True/False).

   (b)   Attempt the following : (any **three**)   12
   (i)   Explain reference variable with example.
   (ii)   Write short note on scope resolution
          operator.
   (iii) Explain switch statement with syntax
          and example.
   (iv)   Explain the memory management
          operator.

2   (a)   Do as directed :   5
   (i)   Constructor is automatic call when object
          is created. (True/False).
   (ii)   What is function prototyping ?
   (iii) What is overloded constructor ?
   (iv)   What is destructor ?
   (v)   In which situation we cannot use inline
          function ?

(b) Attempt the following : (any **three**)   12
    (i) Explain function overloading with example.
    (ii) Write short note on static data members.
    (iii) Explain copy constructor with example.
    (iv) Write short note on friend function.

3   (a) Do as directed :   6
    (i) List the operators which are not overloaded.
    (ii) How to define operator function.
    (iii) How many arguments are required to overloaded binary operator using friend function.

   (b) Attempt the following : (any **three**)   12
    (i) Explain binary operator overloading using members function.
    (ii) Explain class to class type conversion with example.
    (iii) Write a C++ program to overload binary minus operator.
    (iv) Explain string manipulation using operator overloading.

4   (a) Do as directed :   5
    (i) What is pure virtual function ?
    (ii) What do you mean by abstract class ?
    (iii) Virtual function are accessed by using object points. (True/False)
    (iv) List out all kind of inheritance.
    (v) What is static linking ?

   (b) Attempt the following : (any **two**)   12
    (i) Explain multilevel inheritances with example.
    (ii) Write short note on this pointer.
    (iii) Explain virtual function.

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