SET - 3

BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Pre-revised)
Term-End Practical Examination

00261

December, 2013

CS-72 (P) : C++ AND OBJECT ORIENTED PROGRAMMING
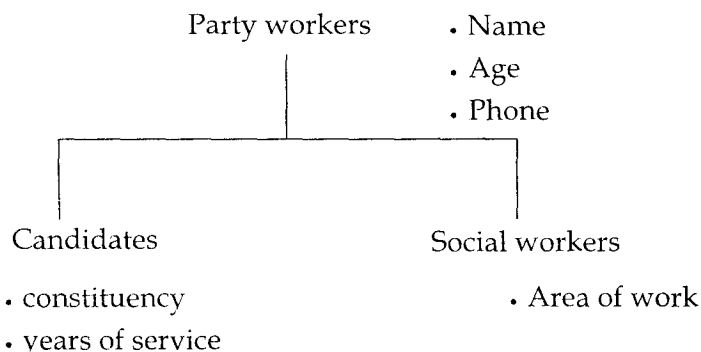
Time allowed : 2 hours

Maximum Marks : 100
(Weightage : 15%)

Note :   *(i)*   *There are **two compulsory** questions in this paper of **40** marks each. Rest **20** marks are for **viva-voce**.*

   (ii)   *You must write appropriate main( ) function and test your programs.*

   (iii)   *Write/print the programs, input and results on your answersheet.*

   (iv)   *Make and state suitable assumptions, if any.*

1.   Design and implement a class "weight" using C + +. The class "weight" should have two data members kgs and gms. The kgs can store values from 0 and 200, whereas gms can store values from 0 to 999. The class should have suitable constructor and member functions. In addition, the class should have an overloaded + operator that allows addition of two objects of class weight. Write appropriate main ( ) function that demonstrate all the functions of the class.   **40**

2.   Consider the following hierarchy along with suggested data members of the classes :   **40**

Design and implement the classes in the hierarchy using C++. You may add more data members in the classes, if needed. You should include at least one constructor in each class. All the classes should have a member function print-worker-info ( ) which prints all the information about the object of that class. You must demonstrate the use of polymorphism using print-worker-info ( ) and appropriate main ( ) functions.

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