

**BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Pre-revised)**

Term-End Practical Examination

00696

June, 2013

CS-72P : C++ AND OBJECT ORIENTED PROGRAMMING

Time allowed : 2 hours

Maximum Marks : 100

(Weightage : 15%)

Note :

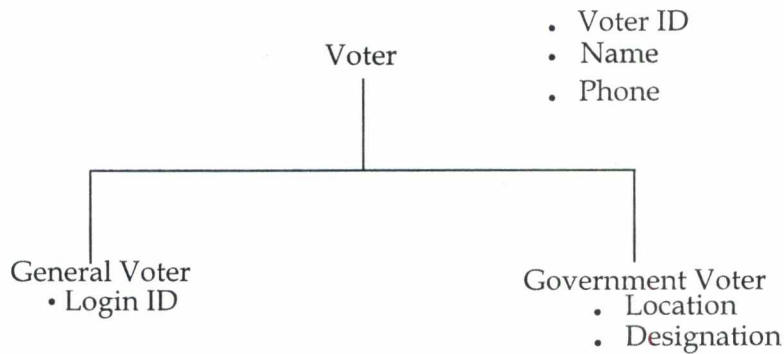
- (i) *There are **two compulsory** questions in this paper of **40** marks each. Rest **20** marks are for **viva-voce**.*
 - (ii) *You must write the appropriate `main()` function and test your programs.*
 - (iii) *Write/print the programs, input and results on your answer-sheet.*
 - (iv) *Make and state suitable assumptions, if any.*
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1. Design and implement a class money having data members of Rupees and Paise using C++. The class should have a constructor and suitable member functions. The class overloads operator + to define the addition operation of two money objects some of the constraints of the class are : **40**

- The money can never be negative
- The maximum value that can be stored in the class is Rs. 99999 and paise 99

Write the appropriate `main ()` function that demonstrates addition of two money objects.

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 - voter - info ()` which prints all the information about a voter / General voter / Government voter. You must demonstrate the use of polymorphism using `print - voter - info ()` and appropriate `main ()` function.