

BACHELOR IN COMPUTER APPLICATIONS (BCA)**Term-End Practical Examination**

03489

June, 2010

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

Time allowed : 2 hours

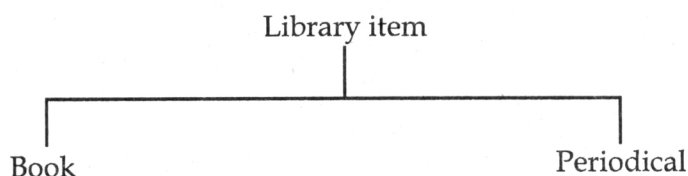
Maximum Marks : 100

(Weightage : 15%)

General Instructions :

- (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 answer-script.
- (iv) Make and state suitable assumptions, if any.

1. Design and implement a class money that contains two data members - Rupee and paisa. The class should have a constructor that initialises the data members. The class should also have two functions - first one that prints the object value as Rs. and Paisa (for example, Rs. 50 and Paisa 75), the second function overloads the + operator and is designed to add the money of two objects. Please note that paisa cannot be more than 99. You must implement the class with appropriate `main ()` function. 40
2. Consider the following inheritance hierarchy :



Each library item has a unique accession number. For books author names is stored whereas for periodicals the volume, year and month of publication is stored. For all these items the publisher information is also stored.

Design and implement the classes in the hierarchy using C++. Your implementation should include the data members and at least one constructor for each class. Also implement a polymorphic function that prints the details of the library item. Implement the appropriate `main ()` function.