

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

**Term-End Practical Examination**

**00041**

**June, 2013**

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

*Time allowed : 2 hours*

*Maximum Marks : 100*

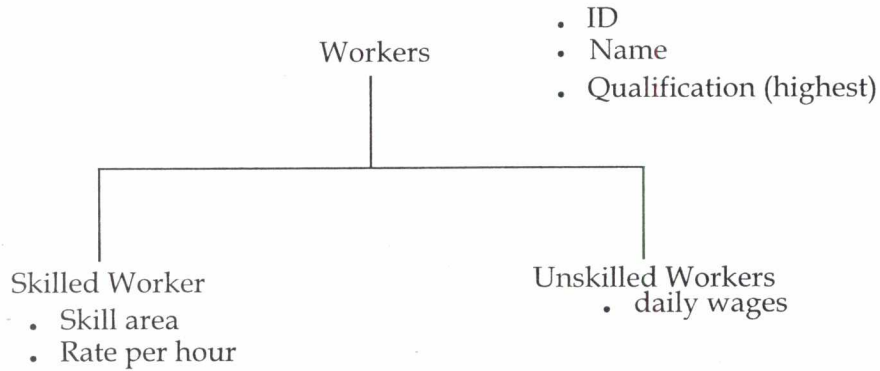
*(Weightage : 15%)*

**Note :**

- (i) *There are two compulsory questions 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-sheet.*
- (iv) *Make and state suitable assumptions, if any.*

1. Design and implement a class "Book" using C++ which stores the Bookid', title, list of authors (You may use an array of size 5 for storing author names) and publisher. The class should have a constructor and a member function which takes an author name as parameter and returns True; if the author name of parameter matches any author name of the object, otherwise false. Write appropriate main ( ) function to produce a list of books that are written by an author. You may design and implement additional member functions in the class to meet such a requirement. 40

2. Consider the following hierarchy along with suggested data members for 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 data of object of that class. You must demonstrate polymorphism using main ( ) function and print - worker - info ( ) function.