

00819

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

**Term-End Practical Examination**

**December, 2015**

**CS-72(P)/S2 : C++ AND OBJECT ORIENTED PROGRAMMING**

*Time : 2 Hours*

*Maximum Marks : 100*

*(Weightage : 15%)*

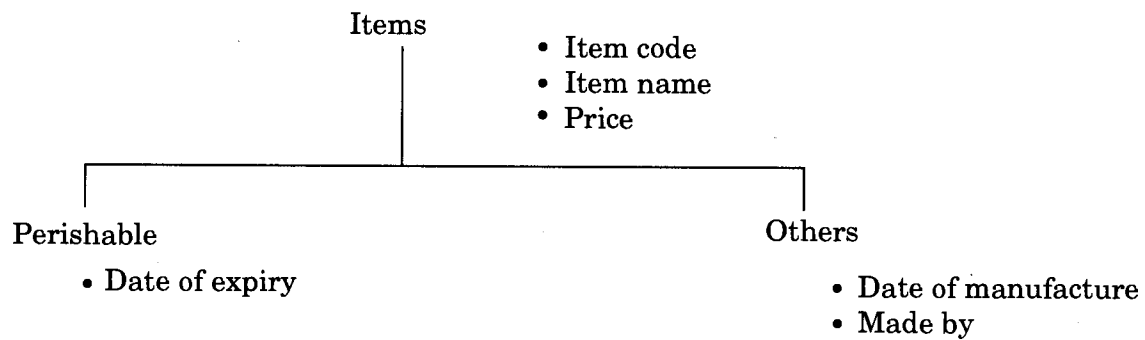
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- Note :**
- (i) *There are two **compulsory** questions in this paper carrying 40 marks each. Rest 20 marks are for viva-voce.*
  - (ii) *You must write appropriate main( ) function and test your programs.*
  - (iii) *Write/print the programs, input and results on your answer-sheet.*
  - (iv) *Make and state suitable assumptions, if any.*
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1. Design and implement a class named "Patient" using C++. The class should store patient name, patient age, telephone number of patient, doctor name last visited, and diagnosis of last visit. The class has two member functions :
  - First to input data values into all the data members of an object.
  - Second to display information stored in an object.

Write appropriate main( ) function that creates a list of five "Patient" objects in an array. The main( ) function should include a code that inputs information in the objects using member function and also for displaying information of all the objects using data members.

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2. Consider the following class hierarchy along with suggested data members :



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_item_info()` which should display all the data of the object. You must demonstrate polymorphism using `print_item_info()` and `main()` functions.

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