

No. of Printed Pages : 2

SET - 2

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

00271

**Term-End Practical Examination**  
**December, 2013**

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

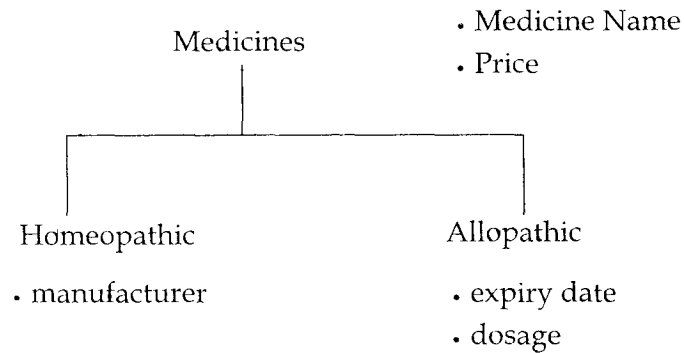
*Time allowed : 2 hours*

*Maximum Marks : 100*  
*(Weightage : 15%)*

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- 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 result on your answer sheet.*
  - (iv) *Make and state suitable assumptions, if any.*
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1. Design and implement a class named "Student" using C++. The class stores the ID, Name and programme name of a student. Also design another class "Student List" that contains an array that stores objects of the class student. The student list class should have a function to find the name and programme name of a student whose ID is given as input. The student class should have a function to input student data and other necessary functions. **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-medicine-info ()` that prints all the data of the object of that class. You must demonstrate polymorphism using the `print-medicine-info ()` and appropriate `main ()` function.

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