

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

**(BCA)**

00733

**Term-End Practical Examination**

**June, 2015**

**CS-72(P)/S1 : 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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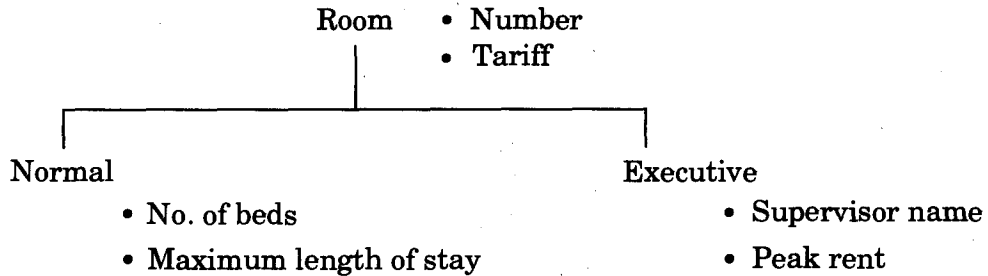
1. Design and implement a class "Vehicle" using C++. The class should have the following features :

- It should store vehicle registration number, vehicle make and type, year of making, and owner name and address.
- The class should have two member functions.
  - First one to input the values to an object.
  - Second displays the content of the object.

Write an appropriate `main()` function which creates an array of five such vehicle objects. Also write code in `main()` that takes vehicle registration number as input and displays the details of the object whose vehicle registration number matches the input.

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2. Consider the following hierarchy along with the 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_room_info()` which should display all the data of the object. You must demonstrate polymorphism using the `print_room_info()` and `main()` functions.

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