

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

Term-End Practical Examination

June, 2015

CS-72(P)/S4 : C++ AND OBJECT ORIENTED PROGRAMMING

Time : 2 Hours

Maximum Marks : 100

(Weightage : 15%)

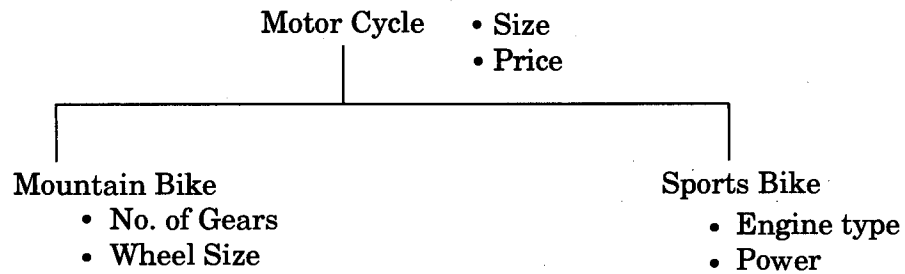
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- Note :**
- (i) *There are two compulsory questions in this paper carrying 40 marks each. Rest 20 marks are for viva-voce.*
 - (ii) *You must write appropriate main() function and test your programs.*
 - (iii) *Write / print your programs, input and results on your answer-sheet.*
 - (iv) *Make and state suitable assumptions, if any.*
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1. Design and implement a class "Creditcard" using C++. The object of this class should store card number, card holder name, credit limit, amount due and date of next payment of amount. The class has two member functions — first puts input data values in the data members of object and second displays the data values stored in the data members of an object.

Write appropriate main() function which creates five "CreditCard" objects in an array. Also write a code in main() that accepts an input of card number and displays the amount due for that card number, if it exists in the array of "CreditCard" objects.

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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, if needed. Include at least one constructor in each class. Implement a function `display_bike_info()` in every class that displays all the data of the objects of that class. Write appropriate `main()` function that demonstrates polymorphism while calling `display_bike_info()` function.

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