BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

00457

June, 2010

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

Time allowed: 2 hours

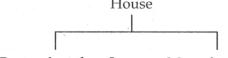
Maximum Marks: 100

(Weightage: 15%)

General Instructions:

- (i) There are two compulsory questions in this paper of 40 marks each. Rest 20 marks are for viva-voce.
- (ii) You must write the appropriate main () function and test your programs.
- (iii) Write/Print the programs, input and results on your answer–script.
- (iv) Make and state suitable assumptions, if any.
- Design and implement a class "circle". You may assume that the circle may be represented by the centre and the radius. The class should have functions to calculate the area of the circle and at least one overloaded operator function (you may overload << or >> or any other operator).
- 2. Design and implement the following class hierarchy using C++:

40



Rooms less than 3

More than 3 rooms

Each house has a specific covered area and cost. The houses that have more than 3 rooms have a balcony which may be of different size for each house.

While implementing your design, you may include:

- the member variables for each class
- at least one constructor for each class
- a function that uses polymorphism, and prints the details of a house.

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