

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

December, 2008

00218

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

Time allowed : 2 hours

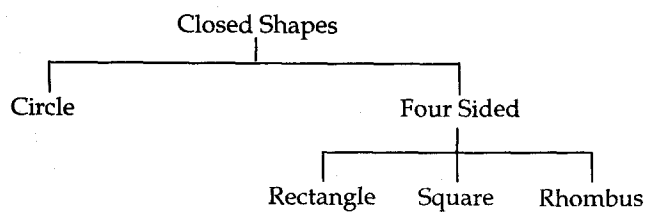
Maximum Marks : 100
(Weightage : 15%)

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 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.

1. Design and implement a class "MyArray" using C++ that stores a single dimensional array of a maximum size 10. An array in this class may consist of upto 10 elements. The size of stored array is also kept in a number variable. The class should have appropriate constructor. Also implement an overloaded '+' operator that allows addition of two arrays as follows : 40
 - if the size of the two arrays being added is not same it returns an error message.
 - Otherwise it adds each corresponding element of the array.

2. Design and implement the following class hierarchy using C++ : 40



You should include the following in your implementation :

- Member variables for each of the class.
- At least one constructor for each class.
- A polymorphic member function that displays the details of each type of shape.

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