

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

01266

December, 2008

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

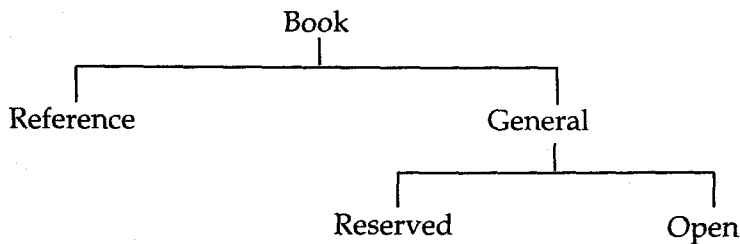
Time allowed : 2 hours

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.

- 1. Design and implement using C++ a class "New_complex" that stores a complex number. 40
The class should have overloaded constructors and an overloaded operator "+" that will allow addition of two complex numbers. The class should also have a function for input of complex number and another function to display the complex number.
- 2. Design and implement the following class hierarchy using C++ : 40



You should include the following in your implementation :

- (i) The classes should have member variables.
- (ii) The classes should have one constructor.
- (iii) A polymorphic function "PrintDetail" that will print details of the Books.