

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

June, 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.

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1. Design and implement a class called "My_sort_array". The class contains an array of sorted integer data. The constructor of the class can take 3 input values and put them in sorted order in the array. Also write one more function that adds a new value in the sorted array (obviously in sorted order). 40

 2. Design and implement the following class hierarchy : 40



Each faculty has an area. Manager manages a department and other staff have a related department. You should include the following details for the class hierarchy :

- Member variables for all classes.
- At least one constructor.
- A polymorphic function "List" that shows all the details of the employees.

