

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

June, 2009

01737

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

Time allowed : 2 hours

Maximum Marks : 100

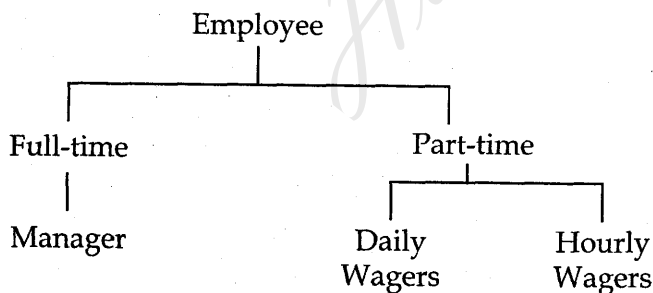
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General Instructions :

- (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 a class `twoDarray` using C++. The class stores data in a two dimensional array of size 3×3 . The class should have a constructor that assigns input values to the array elements. The class should have two additional functions - first to output the array values - element by element and second to search a specified value in the array. Implement the class with appropriate member variables and functions. You must write the appropriate `main()` function to demonstrate all the functions of the class. 40

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



Your implementation should include the following :

- The classes should have member variables.
- The classes should have one constructor.
- It should have a polymorphic function to print the details of employees.

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