

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

02840

June, 2009

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

Time allowed : 2 hours

Maximum Marks : 100

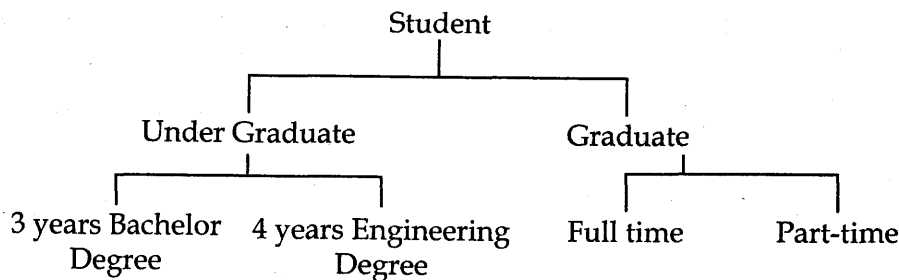
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General Instructions :

- (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 `Daymonth` using C++. The `Daymonth` class stores the day and month of current year in two variables. (For example 5th March 2009 will be stored as `dd = 5` and `mm = 3`). This class has a function to find the day of the year. (For example, 5th March is $31 + 28 + 5 = 64$ th day of year 2009). The class also has function to print the date stored in the object. Implement the class with suitable constructor, functions and member variables. 40

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



Your implementation of class hierarchy should include :

- Member variables for each of the class in the class hierarchy.
- One constructor for every class.
- A polymorphic function that displays the details of a student object.

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