

BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

December, 2007

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

Time allowed : 2 hours

Maximum Marks : 100

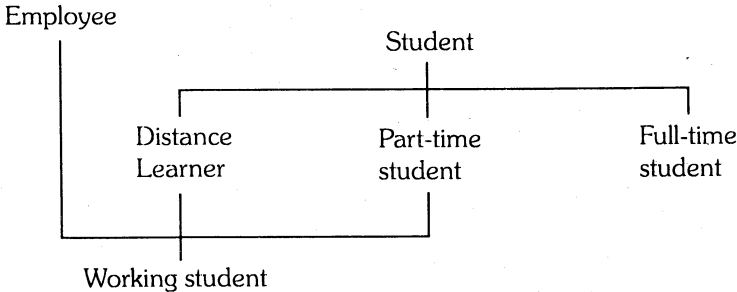
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General Instructions :

- (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 linked list. Write a C++ program that separates the positive numbers and negative numbers and creates two separate link lists for each. Each node in a linked list shared has two fields :
 - Data field having integer value
 - Pointer field having pointer to next node 40

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



You must include the following in your implementation :

- Member variables for the class.
- At least one constructor of each class and destructor, if needed.
- A polymorphic member function that prints information about the student.