

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING (PGDLAN)**

Term-End Practical Examination 00872

June, 2011

MLIL-007 : PROGRAMMING

Time Allowed : 2 Hours

*Maximum Marks : 50
(Practical Work : 40
Viva Voce : 10)
(Weightage : 40%)*

General Instructions :

- (i) *This Question Paper comprises three parts. Attempt any one part. Answer all the questions from attempted part.*
 - (ii) *Show the output to your examiner.*
 - (iii) *Save your output in your system which will be checked by the examiner.*
 - (iv) *Printout of the answers wherever required should be taken in a sheet duly signed by RD with his/her stamp. Write your Roll No., Study Centre and date of examination on these sheets.*
 - (v) *Candidates are not permitted to use any manual/handbook in carrying out the practical.*
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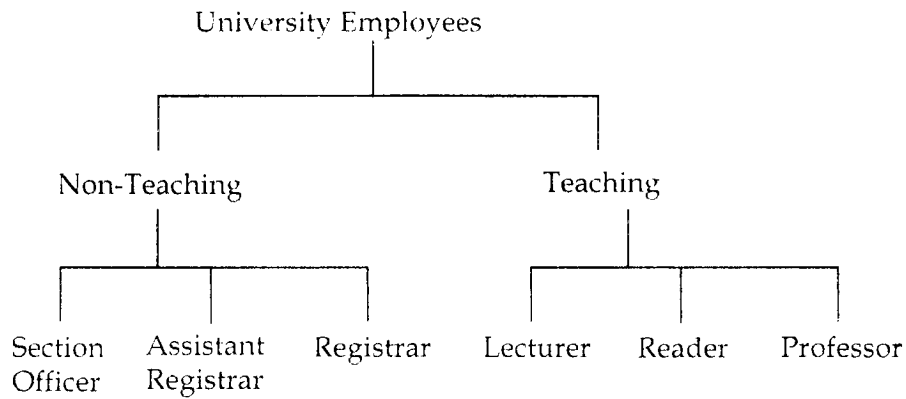
PART - A : C++

1. Write a program in C++ to implement a class called "Person" having data members name, age, working area and name of the employer. Write a program so that it creates an object in the array and add a member function "ppsort" which sorts a group of person objects based on the alphabetic order of their names. 20

Note : Make assumptions, wherever necessary.

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

20



Your implementation should include :

- Member variables
- Constructor and destructor
- A member function that can display names of all the employees in a specific category.

PART - B : JAVA

1. Write a program in JAVA to implement appropriate *classes*, data members and member functions to *add* and *subtract* for two matrices of size $M \times N$. Write suitable output functions to demonstrate the above said operations on metrics. **20**
 2. Write a program in JAVA which reverses the given character string and displays. **20**
for example :
I/P – HELLO
O/P – OLLEH
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PART - C : VISUAL BASIC

1. Write a simple VB program to simulate a calculator which can perform the operations like addition, subtraction, division, multiplication and percentage. Design a user - friendly interface for the application. 20
 2. Create a VB application to find the smallest number among the three numbers given as input. 20
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