

No. of Printed Pages : 6

MLIL-007

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

**Term-End Practical Examination
June, 2026**

**MLIL-007 : PROGRAMMING PRACTICAL
(PART-A : C++)**

Time : 2 Hours

Maximum Marks : 50

(Practical Work : 40

Viva Voce : 10)

Weightage : 40%

Note : (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 answer 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.*

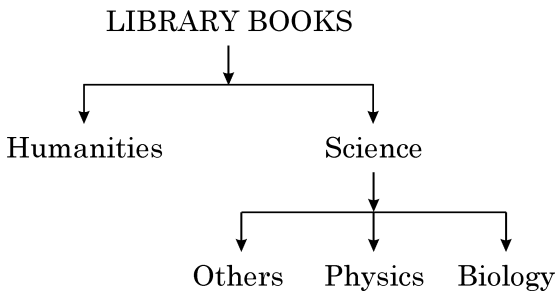
PART—A

C++

1. Write a program in C++ to implement a class named 'Doctor'. The data members of this class are : Doctor's name, Age, Degree, Registration No. Years of Experience and Hospital. Write an overloaded function 'Sort' which will list the Doctor's name and

Registration number, based on either of the following sorting criteria. 'Age' or 'experience' program should take input interactively. 20

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

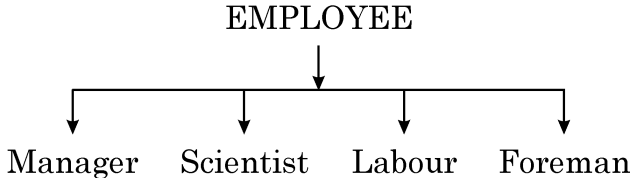


Your implementation should include : 20

- (a) Member Variables
- (b) Constructor and Destructor
- (c) A member function to display the number of books in a particular category

PART—B**JAVA**

1. Write a Menu Driven Interactive Program in Java to implement Matrix Operations—Addition and Subtraction, on matrices of size 3×3 . Write appropriate data members and methods. 20
2. Using JAVA implement the following class hierarchy.



It stores Names and Id-No for all employees no matter what category they are : 20

For managers it also stores their title and club dues.

For scientists it stores number of articles published.

Labour needs no additional data. Foreman stores no. of quota met successfully for a group of Labour.

Write necessary methods for taking input and displaying data.

PART—C
VISUAL BASIC

1. Create a Menu Driven VB application, having two options :

(i) Words

(ii) Count

If the choice is (i), it asks for a sentence as input and displays the number of words in that sentence. 20

If the choice is (ii), it will ask for a string as input and display the number of alphabets in that string.

2. Design a form and write a program in VB, which reverse the text string provided in the input box. Design the GUI as : 20

Input Text Box

Output Text Box

Reverse Cancel

Exit

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