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MLIL-007

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

**Term-End Practical Examination
June, 2025**

MLIL-007 : PROGRAMMING PRACTICAL

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. Develop a library information system in C++ with the base class named 'Author' containing the following information : 20

- (i) ISBN
- (ii) Title of the book
- (iii) Author's name

and the derived class 'PUBDETAILS' which contains :

- (i) Publisher's name
- (ii) Year of publication
- (iii) Price of the book

Define functions to create the database and retrieve individual information as and when required.

2. Design two base classes (1) 'PATIENT DATA' with data members as follows :

(i) Name of the patient

(ii) Sex

(iii) Age

and (2) 'WARD-DATA' consisting of the following data members :

(i) Ward number

(ii) Bed number

(iii) Nature of illness

Write a C++ program to create database of the following items of derived class : 20

(i) Name of the patient

(ii) Sex

(iii) Age

(iv) Ward number

(v) Bed number

(vi) Nature of illness

(vii) Date of admission

PART—B**JAVA**

1. Write a program to create a JAVA package for list operations :

- (i) Creation

- (ii) Display

- (iii) Deletion of an element from the list

Write a program that imports above package and performs above functions. This program should also implement a method to SORT the list.

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2. Create an Interface Book. Make two classes—Passbook and Telephone-book—which implements this interface. The ‘passbook’ is used to record money deposit and withdrawal in a bank for a particular customer.

The Telephone-book is used to store and retrieve contact information (such as name and telephone no.) of your friends.

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PART—C
VISUAL BASIC

1. Develop a Visual Basic Application to create Menu Control Arrays at run time in which new trains can be added and non-existent ones can be deleted. 20
2. A library charges a fine for books returned late. Following are fines : 20
 - (a) First 10 days — ₹ 2/day
 - (b) 10–15 days — ₹ 4/day
 - (c) 15 days onwards — ₹ 8/day

Design a program in Visual Basic to calculate the fine assuming that a book is returned N days later.

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