

No. of Printed Pages : 5

MLIL-007

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

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

**MLIL-007 : PROGRAMMING PRACTICAL
(PART A : C++
PART B : JAVA
PART C : VISUAL BASIC)**

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 create a “STUDENT” class. The class contains the following fields :

Student Name

Roll-No

Programme-Code

Course-Name

Course-Code

Maximum-Marks

Marks-Obtained

Student is pass in the course, if he/she obtains 40% marks. Grades are awarded as per the following calculations :

>90% – A, >80% – B

>70% – C, >60% – D

>40% & <60% – E

<40% – F

Write a program to make necessary calculations and print Grade-Card of each student in the class. 20

2. Write a program in C++ to find the area of a square, a rectangle and a triangle using the concept of polymorphism. 20

Area of a square : Side \times Side

Area of a rectangle : Length \times Width

Area of a triangle : $\frac{\text{Height} \times \text{Base}}{2}$

Assume the triangle is Right Angled.

PART—B**JAVA**

1. Using Java Programming Language create a package that contains methods for addition, subtraction, division and multiplication of any two numbers.

Write a menu driven interactive program which imports the above package and performs the functions of a calculator using the methods in the package. 20

2. Write a program in JAVA to convert the upper case characters in a string to the lower case and vice-versa. The input is to be obtained from user interactively.

For Example : If user input is "NAME" output should be "name" and if input is "name", output should be "NAME". 20

PART—C
VISUAL BASIC

1. Create the following form in Visual Basic and calculate the interest according to the user Input : 20

Principal Amount	:	<input style="width: 100%;" type="text"/>			
Annual Rate	:	<input style="width: 100%;" type="text"/>			
Period (Months)	:	<input style="width: 100%;" type="text"/>			
Interest	:	<input style="width: 100%;" type="text"/>			
<table style="width: 100%; border: none;"> <tr> <td style="border: 1px solid black; padding: 5px 20px; margin: 5px;">Cancel</td> <td style="border: 1px solid black; padding: 5px 20px; margin: 5px;">Exit</td> <td style="border: 1px solid black; padding: 5px 20px; margin: 5px;">Calculate</td> </tr> </table>			Cancel	Exit	Calculate
Cancel	Exit	Calculate			

2. A library charges a fine for books returned late. Following are the fines :

First 5 days — ₹ 1.50 per day

6 to 10 days — ₹ 2.50 per day

Beyond 10 days — ₹ 3.00 per day

Write a program in Visual Basic to calculate the fine assuming that a book is returned 'N' days later. 20

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