

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

**Term-End Practical Examination,**

**December 2019**

**MLIL-007 : PROGRAMMING**

*Time : 2 Hours]*

*[Maximum Marks : 50*

*(Practical Work : 40*

*Viva Voce : 10)*

*(Weightage : 40%)*

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- 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 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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(2) .

**Part - A**

**(C++)**

1. Write a program in C++, using OOP's features of function overloading in C++. Write a program to find the perimeter and area of a square and a rectangle. 20

Formulae:

	Square	Rectangle
Area	Side $\times$ Side	2 (length + breadth)
Perimeter	4 $\times$ Side	length $\times$ breadth

2. Write a program in C++ to implement a class named Book-Entry having data members Book-Title, Author 1, Author 2, ISBN, price, Year, Category, Publisher etc. Write appropriate member functions to display the list of books and their details, if category like computer science or Library Science or Economics etc. is given as input by the user. 20

**Part - B**

**(Java)**

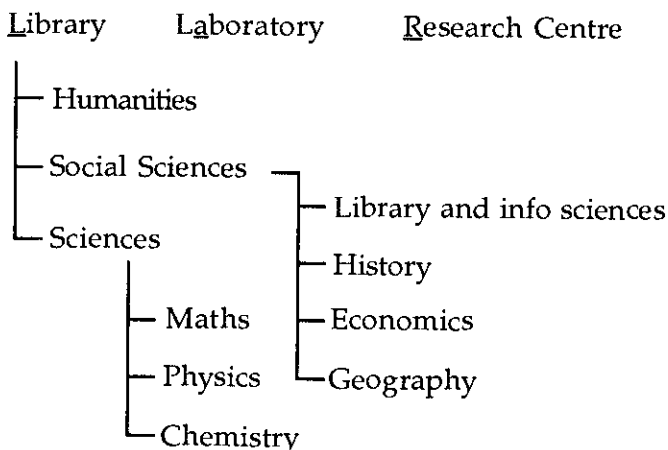
1. Write a program in JAVA to implement a class RESULT to display the Total-Marks and Average for a certificate programme consisting of 4 courses. Each course has 2 components. 20
- i) Assignments
  - ii) Term End Examination
- Pass marks for successful conflation is 40% in each of the components. Select appropriate instant variables (Data members) and methods.
2. Write a program in JAVA to find whether a given year is a LEAP year or not. 20

(3)

**Part - C**

**(Visual Basic)**

1. Write an event procedure in VB to design a form consisting of various courses of PGDLAN and student details. Calculate the total marks and average marks. Use appropriate controls on the form to provide user-friendly interface for inputs and outputs. 20
2. Design a menu as shown below. 20



**Note:** No need of doing any programming.



