| MLIL-007 |

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Practical Examination

June, 2015

00138

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 the attempted part.

(ii) Each part comprises two **compulsory** questions. 10 marks are for viva-voce.

(iii) Show the output to your examiner.

(iv) Save your output in your system which will be checked by the examiner.

(v) 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.

(vi) Candidates are not permitted to use any manual / handbook in carrying out the practical.

PART A : C++

1. Write a program in C++ to declare a class **Automobile**. Derived classes of Automobile are two-wheeler, three-wheeler, four-wheeler and heavy-vehicle. Display the properties of each type of Automobile using member functions of classes. *20*

2. Write a program in C++ using overloading feature, to find the perimeter and area of a square. *20*

Note : Make assumptions, wherever necessary.

Perimeter of a square = 4 × side

Area of a square = side × side

PART B : JAVA

1. Write a program in Java that accepts any two strings S1 and S2 as input. Concatenate them as S1S2, if number of characters in S1 are more than S2 else concatenate them as S2S1. *20*

2. Write a Java program for arithmetic operations (using conditional statement) to add, subtract, divide, multiply (upon choice) any two numbers given by the user. *20*

PART C : VISUAL BASIC

1. Design a simple VB application, which simulates a simple calculator. It should perform the basic operations like addition, subtraction, multiplication, division and percentage. Design user friendly interface for this application. 20

2. Create a VB application that accepts the marks secured by a student in his/her **first semester courses**. Each course has two components :

   * Assignment – 40 Marks

   * Team End Exam – 60 Marks

   50% is passing percentage in each component.

   Display the marks of the students, total marks, result (Pass /Fail) and grade. 20

   Note : *Make suitable assumptions, if any.*

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