

00371

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

Term-End Practical Examination

December, 2017

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) *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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PART - A

(C++)

1. Write a program in C++ to create a class named **Emp** having suitable data members and member functions. Write a constructor and a destructor for **Emp** class. Also, write a method "Retire_year" which returns the year of retirement of the employee. 20

Consider the age of retirement for each employee is 62 years.

Note : Make suitable assumptions, if necessary.

2. Write a C++ program check whether the given number is an armstrong number or not. 20

Note : Armstrong number is a number whose sum of the cube of its digits is equal to the number itself.
e.g. $153 = 1^3 + 5^3 + 3^3$.

PART - B

(Java)

1. Write a program in Java that accepts a string as input from the user and list all words in the string having atleast one vowel. 20
2. Write a program in Java to calculate the factorial of a given number by the user. 20

PART - C

(Visual Basic)

1. Design and write a program in VB, which converts the upper case letters to lower case letter and vice-versa. Design the GUI as given below : 20

I/P Text Box		
O/P Text Box		
upper	lower	cancel
EXIT		

2. Create a VB application with the following four options : 20
- (a) Addition
 - (b) Subtraction
 - (c) Multiplication
 - (d) Division

Whenever, user opt for any option it asks for two numbers from the user, perform the mathematical operation and display the result on screen. Create an appropriate GUI.

