

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

Term-End Practical Examination 00212

June, 2013

MLIL-007 : PROGRAMMING

Time Allowed : 2 Hours

Maximum Marks : 50

(Practical Work : 40

Viva Voce : 10)

(Weightage : 40%)

General Instructions :

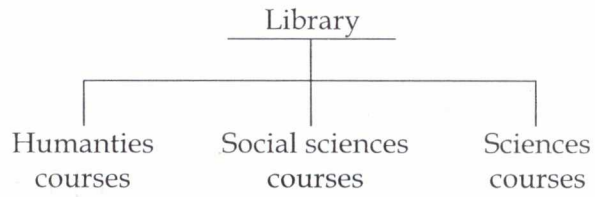
- (i) This Question Paper comprises **three** parts. Attempt **any one** part. Answer all the questions from attempted part.
 - (ii) Show the output to your examiner.
 - (iii) Save your output in your system which will be checked by the examiner.
 - (iv) Printout of the answers wherever required should 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

1. Write a program in C++ to implement a class named Doctor having data member's name, age, hospital name, year of experience, specialization, etc. Write a program so that it creates an object in the array and add a member function "sort" which sorts a group of Doctor object based on year of experience. **20**

2. Design and implement the following classes in C++.

20



Your implementation should include

- Appropriate member variables and member functions
- Constructor and Destructor
- A polymorphic function *Book-Display* to display the total number of books for which a user is registered

Part - B

1. Write a program in Java to implement a class that contains an array of integers with a member method print() which prints the elements of array. 20
2. Write a program in Java that converts the uppercase characters into lowercase and vice-versa. The input string is given by user as command line arguments. 20

Part - C

1. Write a VB program to accept a string from user and write a function to reverse the string. Ignore all leading and trailing spaces in the input string. Display the reverse string in a message box. 20
2. Create an application in VB (as per the form/details given below) to provide a login form for a company. 20

The image shows a screenshot of a Windows-style application window. The window has a title bar with standard minimize, maximize, and close buttons. Inside the window, there are four text input fields arranged vertically, each preceded by a label: 'User_ID', 'Dept_Code', 'Year of Joining', and 'Password'. Below these fields are two buttons: 'Refresh' and 'Login'.

From details given above are stored in a database file named 'Emp'. Login is successful if password and other details match correctly.

Note : Make and state suitable assumptions if any.