

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

**Term-End Practical Examination 00850**

**December, 2012**

**MLIL-007 : PROGRAMMING**

*Time Allowed : 2 Hours*

*Maximum Marks : 50*

*(Practical Work : 40*

*Viva Voce : 10)*

*(Weightage : 40%)*

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**General Instructions :**

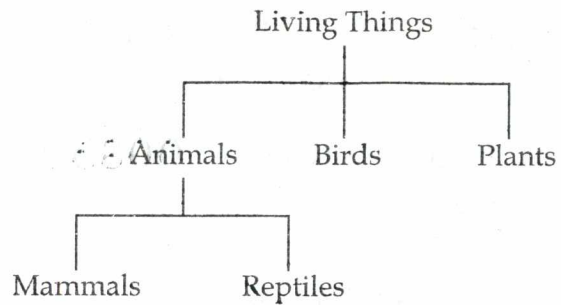
- (i) This Question Paper comprises **three** parts. Attempt **any one** part. Answer all the questions from attempted part.
  - (ii) Show the output to your examiner.
  - (iii) Save your output in your system which will be checked by the examiner.
  - (iv) Printout of the answers wherever required should 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. Complex, which represents a complex number. The class must have a constructor and destructor. The complex class should provide a member function "add" that adds two complex numbers and display the result. Write a suitable main () function to demonstrate the class above. **20**

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

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your implementation should include :

- \* Appropriate member variables and member functions.
- \* Constructor and Destructor.
- \* A polymorphic function to display information about living things.

**PART - B**

1. Write a program in Java to count and display the number of upper case, lower case, digits and other characters in a file. 20
2. Write a program in Java to create a class 'rectangle.' The rectangle is defined by two objects bottom left and Upper Right of type "point". "Point" is a class having two members:  $x$  and  $y$ . Write the constructors for both classes. Write a method in "rectangle" to display the two points. 20

### PART - C

1. Create a V B application to calculate and display the prime numbers between the given range of intergers provided by the user. Select appropriate controls on the form. 20
2. Create a VB application (as a form given below) to search the student result from a database file named 'Student". 20

The image shows a screenshot of a Visual Basic application window. The window has a title bar with standard minimize, maximize, and close buttons. Inside the window, there are two text input fields. The first field is labeled "Enrollment No. :" and the second is labeled "Programme Code". Below these fields are two buttons: "Search" and "Cancel".

Student database contains student Name, Enrolment number, Pass/Fail status, Programme code.

Note : Make suitable assumptions, if necessary.