

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

Term-End Examination

June, 2012

MLI-007 : PROGRAMMING

Time : 2 hours

Maximum Marks : 50

(Weightage : 40)

Note : (i) *There are three parts in this question paper.*

Part A : C++

Part B : Java

Part C : Visual Basic

(ii) *Candidates are advised to attempt only the part opted by them.*

(iii) *Mention clearly the part attempted before answering.*

(iv) *All parts carry equal marks.*

(v) *Answer all questions. All questions carry equal marks. Illustrate your answers with suitable examples and diagrams, wherever necessary. Write the relevant question number before writing the answer.*

PART-A : C++

1.1 What is a member function ? How does it differ from an inline function ?

OR

1.2 Explain any *two* data types in C++ with examples.

2.1 Explain the following statements with examples :

(a) *GoTo* statement

(b) *Switch case* statement

OR

2.2 Give an example each for *class* and *an object*. Explain the differences between them in C++.

3.1 What is a static object ? What are its advantages ? Give an example.

OR

3.2 What is a friend function ? What are the access privileges they have which are not present for public and private member functions ?

4.1 What is a copy constructor ? What are its advantages ? Give an example.

OR

4.2 What is meant by operator overloading ? What are its advantages ? Give a suitable example.

5.0 Write short notes (about **250** words each) on *any two* of the following :

- (a) Inheritance
- (b) Polymorphism
- (c) Destructors
- (d) Exception handling

PART - B : JAVA

- 1.1** Write an algorithm that accepts “ N” integers as input and prints all odd integers among them as output. Also, draw a flowchart for the abovementioned problem.

OR

- 1.2** Explain the statements of exception handling in Java.

- 2.1** Explain all the features of JAVA language.

OR

- 2.2** Mention the use of the following libraries in the programming :

- (a) java. math
- (b) java. net
- (c) java. applet
- (d) java. awt

- 3.1** List and explain the Unary operators in JAVA. Also, give an example of each Unary operator.

OR

- 3.2** Write a program in Java that accepts a string as input and prints the characters individually of the string.

4.1 With the help of an example for each, write the syntax for the following constructs :

- (a) *Do..... while*
- (b) *switch*
- (c) *for*

OR

4.2 Explain the access modifiers, namely, public, private and protected in Java.

5.0 Write short notes (about 250 words each) on *any two* of the following :

- (a) The container components
- (b) The wrapper classes
- (c) The Grid layout manager
- (d) Inheritance

PART- C : VISUAL BASIC

1.1 Briefly, describe Visual Basic interface.

OR

1.2 What are the rules that need to be followed while naming variables ? Give examples.

2.1 List and explain *any five* numeric functions in Visual Basic.

OR

2.2 List and explain *any five* properties of a form.

3.1 Explain the process of adding any object from the tool box to an application.

OR

3.2 Briefly, explain *any four* controls on a form with appropriate usage.

4.1 Explain the process of creating a database in Visual Basic.

OR

4.2 Write an event procedure that accepts the marks secured by a student in various courses in examination and assigns first or second or third division depending on the aggregate percentage of marks secured by the student.

Note : Make assumptions, wherever necessary.

5.0 Write short notes (about 250 words each) on *any two* of the following :

- (a) DLL
 - (b) Creation of a menu bar
 - (c) RAD (Rapid Application Development) tools
 - (d) Modal and Modeless dialog boxes.
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