POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

00409

Term-End Practical Examination

December, 2016

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.

PART - A
(C++)

1. Create a class Library-Employee that contains   **20**
Emp_No, Emp_Name, Designation, Basic_Pay,
Deductions (LIC, PF, Loans). Include a member
functions to get data from the user for 'n'
employees and to generate pay-slips for them
using the following details :
> DA = 119% of Basic_Pay
> HRA = 30% of Basic_Pay
> Gross_Pay = Basic_Pay + DA + HRA
> Net_Pay = Gross_Pay − Deductions

Make suitable assumptions, if any.

2. Write a C++ program that prints details of all the   **20**
library reference books that were purchased in
the current financial year for various disciplines
like Humanities, Social Sciences, Engineering etc.
Create appropriate classes with data members
and member functions.

PART - B
(JAVA)

1. Write a program in JAVA to search for the name   **20**
of a student-member of a library in the given list
of 5 student objects. Use any searching technique
of your choice. Make suitable assumptions about
classes, (instance variables and methods).

2. Write a program in JAVA to display the total   **20**
marks and percentage of a student in PG Diploma.
You may assume that a student class consists of
student name and marks in five different subjects.
Write suitable classes with appropriate instance
variables and methods.

Note : Make necessary assumptions.

PART - C

(Visual Basic)

Design the menu interface given below using the   **20**
Menu_Editor :

File	Edit	Window	Help
New	Add Book	New Window	About
Open	Remove Book	Arrange All	Version
Save Book List	Clear Book List	Split	
Close			
Exit			

Note : Only menu-design is sufficient, no need to
          do any programming.

Write an event procedure to create the   **20**
summary-sheet of a newly joined students in
PGDLAN programme, to be sent to the allotted
study centre.

———