MLIL-007

00271

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Practical Examination

December, 2018

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.*
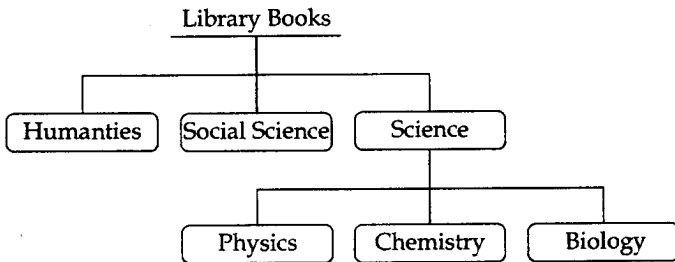
PART - A

(C++)

1. Write a program in C++ to implement a class   20
    Grade Card for a programme "PGDLAN". This
    class contains student_name, enrollment number,
    programme_code, course_name, course_code
    mark_obtained, maximum marks, etc., student is
    pass in a course, if she/he obtain 50% mark of
    maximum marks in a course make necessary
    calculations and print the Grade Card of the
    students.

Note : Make suitable assumptions, if any.

2. Design and implement the following class   20
    hierarchy in C++.

Library Books

Humanties   Social Science   Science

Physics   Chemistry   Biology

Your implementation should include :

*   member variables

*   constructor and destructor

*   A member function that display the number
    of books in a specific category.

PART - B

(Java)

1. Write a program in Java to convert the upper case   **20**
    characters in a text string to the lower case
    characters and vice-versa. The input string will
    be given by the user.

Note : For example user input in JAVA output should
    be java and vice-versa.

2. Write a program in Java to implement a class   **20**
    Matrix, which can add and subtract any two
    matrices of size 3 × 3. Write an appropriate data
    members and methods. The input matrices will
    be given by the user.

PART - C

(Visual Basic)

1. Create a VB application which is having two   **20**
    menu option i.e., *count* and *words*. When user
    select *count* menu option, it will ask for a string as
    an input and display the number of alphabets in
    that string. If the choice is *words*, it asks for a
    sentence as an input and display the number of
    words in that sentence.

2. Create the following VB form and convert the **20** currency.

Indian Rupees : [   ]

Equivalent Amt. : [   ]

[USD]   [AUD]   [CAD]

User will enter input in Indian Rupees textbox. On click of any given Button equivalent amount will be displayed.

Assume : 1 USD = ₹ 70 (Indian Rupees)

1 AUD = ₹ 50 (Indian Rupees)

1 CAD = ₹ 55 (Indian Rupees)

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