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No. of Printed Pages : 4

MLIL-007

**Post Graduate Diploma in Library
Automation and Networking
(PGDLAN)**

Term-End Examination

June, 2019

MLIL-007 : PROGRAMMING

Time : 2 Hours

Maximum Marks : 50

(Practical Work : 40, Viva-Voice : 10)

(Weightage : 40%)

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- Note :** (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 answer 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-**(C++)**

1. Write a program in C++ to implement a class named Doctor which is having data members like Doctor's Name, Age, Hospital Name, Years of Experience, Highest Degree, Registration No. etc. Write a function "sort" which will list the Doctor's Names and Registration Number based on the following sorting criteria :

"Age".

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2. Design and implement a class *Myarray* for string manipulation. Write a function, which will accept two strings (alphanumeric) and concatenate these strings and save in a new variable. Write appropriate constructor and destructor for class *Myarray*. Also, display the size of concatenated string to the user. 20

Part-B
(JAVA)

1. Write a program in Java which to accept multiple text strings (or a statement) from the user as an input. It will display the list of words among these strings which are having at least one vowel in them. 20

2. Assume a "programme" offered by a university consists of 5 course (50 subjects). Write a program in Java that performs the following function : 20

Accepts the roll number of a student and display the marks obtained by a student in various courses. If a student is not registered in a course, program should display "pending" against that course.

Design and implement the class(s), data members and method(s) necessary to perform the above function(s).

Part-C

(VISUAL BASIC)

1. Write a program in VB to convert the temperature from Celsius to Fahrenheit. Create the appropriate buttons and text boxes. Use the formula : 20

$$\text{Celsius} = \frac{5}{9} \times (\text{Fahrenheit} - 32) .$$

2. Write a VB application which accepts a string from the user as input. Create the appropriate buttons and text boxes to reverse the string and to count the number of characters in the given string. 20