Roll No................   **Total No. of Printed Pages : 5**

Code No. : B02/117(B)

Second Semester Online Examination, May-June, 2022

PGDCA

Paper I (PDC-110)

PROGRAMMING IN PYTHON

Time : Three Hours]   [Maximum Marks : 100

Note : *Part A and B of each question in each unit consist of 'very short answer type question' which are to be answered in one or two sentences. Part C 'Short answer type' and D 'Long answer type' of each question should be answered within the word limit mentioned.*

UNIT-I

1. (A) Give the example of dictionary data type. **2**

   (B) Write the syntax of declaring list type variable. **2**

   (C) Explain membership operators with example. *(word limit 200-250)* **4**

   OR

   What are the uses of Identity operators ? Explain with example.

   P.T.O.

Right column:

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(D) Explain the following with example:

   (a) Set data type,

   (b) Dictionary data type,

   (c) List data type,

   (d) Type data type.

   (word limit 400-450) **12**

   OR

   What are the uses of logical operators in Python ? Write a python program to enter three no. and print largest number using logical operators.

UNIT-II

2. (A) Write the syntax of if, else and elif statements. **2**

   (B) What is input() functions ? **2**

   (C) Explain for loop with range function with suitable example.

   (word limit 200-250) **4**

   OR

   Explain any four built in function in python.

   [2]

(D) What is uses define function in python ? How we can define a function in python ? Explain various types of parameter of a function with example.

(word limit 400-450) **12**

OR

Differentiate between for loop and white loop in python. Write a python program to print number table of a number given by user.

UNIT-III

3. (A) What is IOError exception ? **2**

(B) Write the syntax of try-except statement.

2

(C) What is ecception in python ? How we can Handle it using try except statement explain. *(word limit 200-250)* **4**

OR

What is zero division error exception ? Write a python program to handle it.

(D) Explain How we can handle multiple exception in python. Also explain try-finally block with example.

(word limit 400-450) **12**

[3] **P.T.O.**

OR

What do you mean by raising exceptions ? Explain. Also explain custom exception with example.

UNIT-IV

4. (A) What is object oriented programming ? **2**

(B) Define method over loading ? **2**

(C) Differentiate between procelural and object oriented programming.

(word limit 200-250) **4**

OR

Define classs and object.

(D) What do you mean by module ? Explain the concept of importing internal module as well as external modules in python.

(word limit 400-450) **12**

OR

Explain the following :

(i) Lambda function,

(ii) Features of oops.

[4]

UNIT-V

5. (A) What is data structure ? **2**

(B) Define stack. **2**

(C) Explain various types of data structures with example.

(word limit 200-250) **4**

OR

Differentiate between linear and non-linear data stucture.

(D) What is recursion ? How we can implement it in python. Write a python programs to print a factorial of a number using recursive function.

(word limit 400-450) **12**

OR

Explain the following :

(i) Queue,

(ii) Tree,

(iii) Divide and conquer strategy.

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