Seat No. _____

HO-003-3022002

P. G. D. C. A. (Sem. II) (CBCS) (W.E.F. 2022) Examination

April - 2023

Core Python Programming : CS-08

Faculty Code : 003
Subject Code : 3022002

Time : $2\frac{1}{2}$ / Total Marks : **70**

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1 (a) Objective type questions : **4**

    (1) Which symbol is used to single line comment in python?

    (2) Give full form of IDLE.

    (3) What is an output of type (7)?

    (4) What is sequence in python ?

  (b) Answer in brief : (any 12 out of 2) **2**

    (1) Write step to install python.

    (2) What is constant ?

  (c) Answer in detail : any 1 out of 2) **3**

    (1) Write a step to execute python code using command.

    (2) Explain command line arguments.

  (d) Write a note on (any 1 out of 2) **5**

    (1) Explain input and output statements.

    (2) Explain data types available in python.

2 (a) Objective type questions: **4**

    (1) In python, exceptions can be handled using ____ statement.

    (2) What is break in python ?

    (3) What is slicing in python ?

    (4) What is if statement ?

(b) Answer in brief : (any 1 out of 2)   **2**

    (1) Write a code to demonstrate if-else.

    (2) Write a code to demonstrate for loop.

(c) Answer in detail : (any 1 out of 2)   **3**

    (1) Explain operations with strings with example.

    (2) Explain nested loops in python.

(d) Writer a note on (any 1 out of 2)   **5**

    (1) List and explain types of array in python.

    (2) Explain while loop with example.

3 (a) Objective type questions :   **4**

    (1) Dictionary holds data as key-value pair (Yes/No)

    (2) Set is unordered collection data type (Yes/No)

    (3) List can be represented by [] (Yes/No)

    (4) Set will allow duplicate elements (Yes/No)

(b) Answer in brief : (any 1 out of 2)   **2**

    (1) Write syntax to create tuple.

    (2) Write syntax to create list.

(c) Answer in detail : (any 1 out of 2)   **3**

    (1) Explain operation on list and tuple.

    (2) Explain dictionary methods.

(d) Write a note on : (any 1 out of 2)   **5**

    (1) Give difference between Set and tuples.

    (2) Explain dictionary with example.

4 (a) Objective type questions :   **4**

    (1) What is function ?

    (2) What is error ?

    (3) Write syntax to define function.

    (4) What is packages ?

(b) Answer in brief : (any 1 out of 2)   **2**

    (1) What is pass by object?

    (2) What is composition ?

(c) Answer in detail : (any 1 out of 2)   **3**

    (1) Explain default argument in function with code.

    (2) Explain exception handling in python.

(d) Write a note on : (any 1 out of 2)   **6**

    (1) Explain Math module and Random Module with example.

    (2) Explain various operations on files with example.

5 (a) Objective type questions :   **4**

    (1) Give full form of OOP.

    (2) What is Class ?

    (3) What is Interface ?

    (4) Give full form of MRO.

(b) Answer in brief : (any 1 out of 2)   **2**

    (1) What is Method Overloading ?

    (2) List types of Inheritance.

(c) Answer in detail :   **3**

    (1) What is Super ?

    (2) Explain method Overriding.

(d) Write a note on : (any 1 out of 2)   **5**

    (1) Explain Interfaces with example.

    (2) Explain Polymorphism with example.

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