DCK-003-1036003   Seat No. _____

B. C. A. (Sem. VI) Examination

July - 2022

CS-33 : Programming in Python (2016)

Faculty Code : 003

Subject Code : 1036003

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

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

    (1) The _____ symbol is to set comments in Python.

    (2) What is Tuples?

    (3) LIST data type in Python.

    (4) IDLE stands for _____

  (b) Attempt any **one** out of two :   **2**

    (1) Explain TUPLE data type in Python

    (2) What is function specification?

  (c) Attempt any **one** out of two :   **3**

    (1) Explain Branching statements in Python

    (2) Explain recursion with example.

  (d) Attempt any **one** out of two :   **5**

    (1) Explain dictionary in details with example.

    (2) Explain Modules in Python with example.

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

    (1) What is the time complexity of the merge sort?

    (2) _____ keyword tell the python that function is return value.

    (3) ELSE keyword is used in Exception Handling in Python (TRUE / FALSE).

    (4) What is the binary search ?

(b) Attempt any **one** out of two : 2

(1) Explain exception handling in brief.

(2) What is Inheritance?

(c) Attempt any **one** out of two : 3

(1) Explain information hiding with example.

(2) Explain Encapsulation in Python.

(d) Attempt any **one** out of two : 05

(1) What is OOP? Explain in detail.

(2) What is class? How to define class in python.

3 (a) Objective type questions : 4

(1) _____ method displays the graphical window.

(2) When stores PyLab Figure, Default _____ extension.

(3) PNG stands for _____

(4) Which function is used to save plot graph to file?

(b) Attempt any **one** out of two : 2

(1) Explain pylab.show( ) with example.

(2) What is Memorization?

(c) Attempt any **one** out of two : 3

(1) Write a program to draw simple plot with at least five points.

(2) Explain Fibonacci sequence.

(d) Attempt any **one** out of two. 5

(1) Explain Divide and Conquer algorithm.

(2) Explain the 0/1 Knapsack Problem

4 (a) Objective type questions : 4

(1) XML stands for _____

(2) Regular expressions are supported by the _____ module.

(3) Uses of regular expressions.

(4) JSON-stands for _____

(b) Attempt any **one** out of two ;   2

    (1) List out all flags modifier with single line meaning.

    (2) Explain loads( ) and dumps( ) method of json.

(c) Attempt any **one** out of two :   3

    (1) Differentiate search ( ) VS findall ( ) in Python.

    (2) Explain split () and sub ( ) function in Python

(d) Attempt any **one** out of two :   5

    (1) Explain screen scraper with example.

    (2) Explain Mailmerge with example.

5 (a) Objective type questions :   4

    (1) MSE stands for _____

    (2) Python is use for manage big data? True/False.

    (3) ROC stands for _____

    (4) What is Model.

(b) Attempt any **one** out of two :   2

    (1) What is Predictive Modeling?

    (2) Explain Data Analytics

(c) Attempt any **one** out of two :   3

    (1) Explain Balancing Performance with example.

    (2) Explain Training Data in Data Analytics in Python.

(d) Attempt any **one** out of two :   5

    (1) What is Predictive Modeling? Explain with example.

    (2) What is Big Data? How manage Big Data in python.

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