DCK-003-2036003　　Seat No. _____

B. C. A. (Sem. VI) (W.E.F. 2019) Examination
July - 2022
CS-33 : Programming in Python

Faculty Code : 003
Subject Code : 2036003

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

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

(1) Who is the developer of python?

(2) What is Python?

(3) Which character is used in Python to make a single line comment?

(4) What is the output of 15//2 and 15/2 ?

(b) Attempt any **one** :　　　　　　　　　　　　　　　　　**2**

(1) Explain tuple with example.

(2) What is a Global variable?

(c) Attempt any **one** :　　　　　　　　　　　　　　　　　**3**

(1) Explain recursion with example.

(2) Explain Branching programs with example.

(d) Attempt any **one** :　　　　　　　　　　　　　　　　　**5**

(1) Explain List in details with example.

(2) Explain future of python.

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

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

(2) What is Exception?

(3) What is the time complexity of sorting algorithm?

(4) List Search Algorithms.

(b) Attempt any **one** :   **2**

    (1) What is inheritance?

    (2) Explain exception handling in brief.

(c) Attempt any **one** :   **3**

    (1) Explain liner search with example.

    (2) What is Encapsulation? Explain with example.

(d) Attempt any **one** :   **5**

    (1) What is class? How to create it? Explain with example.

    (2) Explain Hash tables with example.

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

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

    (2) What is the default extension of PyLab Figure?

    (3) Who was invented Dynamic programming.

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

(b) Attempt any **one** :   **2**

    (1) Compare dynamic programming and divide and conquer.

    (2) What is plotting?

(c) Attempt any **one** :   **3**

    (1) Write a code for draw simple plot with at least three points.

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

(d) Attempt any **one** :   **5**

    (1) Explain with example 0/1 Knapsack algorithm.

    (2) Explain with example Plotting mortgages.

4 (a) Objective type questions : 4

    (1) What is IP Address?

    (2) TCP/IP stands for _____

    (3) IPv4 IP Address Range in of Class A _____

    (4) UDP stands for _____

  (b) Attempt any **one** : 2

    (1) What is regular expression?

    (2) Explain widget attributes.

  (c) Attempt any **one** : 3

    (1) Explain loads ( ) method with example.

    (2) Write step to Sending a Simple Mail.

  (d) Attempt any **one** : 5

    (1) Explain Protocol and Sockets in detail.

    (2) What is frame? Explain with example.

5 (a) Objective type questions : 4

    (1) Write a syntax of Insert record in table.

    (2) Which package import before writing database connectivity python code?

    (3) SQL stands for _____

    (4) What is Table.

  (b) Attempt any **one** : 2

    (1) List out basic library required for data analytics in python.

    (2) What is MySQL database?

(c) Attempt any **one** :   3

    (1) Write a python code to Updating Rows in a Table.

    (2) Write a code for Creating Database Tables.

(d) Attempt any **one** :   5

    (1) Write a python code to inserting, updating and Deleting Rows into a Table.

    (2) Write a python code view all Rows from the Table.

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