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

Faculty Code : 003

Subject Code : 2036003

Time : **2.30 Hours]**   [Total Marks : **70**

1 (A) Attempt the following objective questions.   **4**

    (1) What is Tuple ?

    (2) What is Python ?

    (3) How many keywords are there in python 3.7 ?

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

  (B) Answer in brief (any one).   **2**

    (1) What is a Global variable ?

    (2) What is List ?

  (C) Answer in brief (any one).   **3**

    (1) Explain Branching programs with suitable example.

    (2) What is Module ? Explain with example.

  (D) Answer in brief (any one).   **5**

    (1) What is Dictionaries ? Explain with example.

    (2) Explain any two loops with suitable example.

2 (A) Attempt the following objective questions.   **4**

    (1) What is Exception ?

    (2) What is Assertions ?

    (3) Partition and exchange sort is _____.

    (4) Parent class is the class being inherited from also called ?

(B) Answer in brief (any one).   2

    (1) What is class ?

    (2) What is inheritance ?

(C) Answer in brief (any one).   3

    (1) What is 'self' in Python ? Explain with example.

    (2) What is Encapsulation ? Explain with example.

(D) Answer in brief (any one).   5

    (1) Explain Abstract Data Types and Classes with Example.

    (2) Explain Hash tables with example.

3 (A) Attempt the following objective questions.   4

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

    (2) PyLab provides many of the facilities of _____

    (3) Which module of matplotlib library is required for plotting of graph ?

    (4) _____ function is used to display figure/chart.

(B) Answer in brief (any one).   2

    (1) What is plotting ?

    (2) Explain various methods used to Plot/graph in Python.

(C) Answer in brief (any one).   3

    (1) What is subplot () ? Explain it.

    (2) Explain Dynamic programming and divide and conquer in detail.

(D) Answer in brief (any one).   5

    (1) What is mortgages ? Explain with example.

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

4 (A) Attempt the following objective questions.   4

    (1) What is GUI ?

    (2) What is mainloop () ?

    (3) What is TCL ?

    (4) What is IP Address ?

(B) Answer in brief (any one). **2**

    (1) What is an entry field ?

    (2) What is a dialog ?

(C) Answer in brief (any one). **3**

    (1) Explain widget attributes in detail.

    (2) Explain types of layouts in detail.

(D) Answer in brief (any one). **5**

    (1) Explain nested frames with suitable example.

    (2) Explain Two-Way communication between server and client in detail.

5 (A) Attempt the following objective questions. **4**

    (1) What does SQL stand for ?

    (2) _____ method executes a database query from within Python.

    (3) By default the order by clause sorts the result set in the _____ order.

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

(B) Answer in brief (any one). **2**

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

    (2) What is MySQL database ?

(C) Answer in brief (any one). **3**

    (1) Write a python code to Retrieving All Rows from a Table.

    (2) Write a python code to inserting and Deleting Rows into a Table.

(D) Answer in brief (any one). **5**

    (1) Write a python code to creating database and tables through Python.

    (2) Write down steps to verifying the MySQL dB interface and installation steps in detail.

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