



**DO-003-2036003**

Seat No. \_\_\_\_\_

**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.