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**BCACAC 335**

**Choice Based Credit System Fifth Semester B.C.A. Degree  
Examination, April/May 2022  
(2021-22 Batch Onwards)  
PYTHON PROGRAMMING (Group – I)**

Time : 3 Hours

Max. Marks : 80

**Note :** Answer **any ten** questions from Part – A and **one full** question from **each** Unit in Part – B.

**PART – A**

**(10×2=20)**

1. a) How to write a comment line in Python ? Mention two types.
- b) List any four differences between Java and Python.
- c) Differentiate set and frozenset.
- d) How to compare and concatenate two strings in Python ? Give one example for each.
- e) List 4 types of actual arguments used in Python function calls.
- f) What is a tuple ? Give example.
- g) What is an accessor method ? Give example.
- h) What is an exception ? List any two built-in exceptions in Python.
- i) What is the daemon thread ?
- j) What is a root window ? How it is created in Python ?
- k) Write a Python code to download an image from the internet.
- l) How to connect MySQL database from Python.

**PART – B**

**Unit – I**

2. a) Explain any five features of Python.
- b) Explain the various sequence data types in Python with Syntax and example.
- c) Explain the Arithmetic operators and membership operators available in Python with example. **(5+5+5)**

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3. a) Explain any three functions used to create an Array using the numpy package.
- b) Explain the concept of Python Virtual Machine.
- c) Explain passing command-line arguments with a program example. (6+5+4)

#### Unit – II

4. a) What is string slicing ? Explain different ways of slicing string with example.
- b) With an example explain returning multiple values from a function.
- c) Explain any five methods to process the list with suitable example. (5+5+5)
5. a) Explain use of filter(), reduce() methods with suitable examples.
- b) Explain different types of actual arguments used in the function call with examples.
- c) Explain any five methods to process elements of the dictionary with example. (5+5+5)

#### Unit – III

6. a) What is a class ? How to create a class and object in Python ? Give example.
- b) What is inheritance ? How to implement inheritance in Python ? Give an example.
- c) Explain exception handling in Python with an example. (5+5+5)
7. a) Explain class and static methods with suitable example.
- b) Explain findall() and search() methods used in regular expression with example.
- c) Explain creating a thread by creating a subclass to the Thread class. Give an example. (5+5+5)

#### Unit – IV

8. a) Write a note on arranging Widgets in a frame using layout managers.
  - b) Explain the functions related to TCP/IP server and TCP/IP Client.
  - c) Explain how to connect to the MySQL database and retrieve all the rows from a table with an example. (5+5+5)
  9. a) How to create a button widget and bind it to the event handler ? Explain with example.
  - b) Explain the steps to create file server that receives file name and sends a file's contents.
  - c) Explain how records are inserted and deleted from the MySQL database with an example. (5+5+5)
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