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BCACACN 401

**Fourth Semester B.C.A. Degree Examination, July/August 2023
(NEP 2020)
(2022-23 Batch Onwards)
PYTHON PROGRAMMING
(DSCC)**

Time : 2 Hours

Max. Marks : 60

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

PART – A

(6×2=12)

1. a) How to determine the data type of a variable ? Give the syntax and example.
- b) What is indentation ? Why it is required ?
- c) What is the use of negative indexing ? Give example.
- d) What is dictionary ? Give example.
- e) What is the use of seek() and tell() methods ?
- f) What is root window ? How it is created in Python ?
- g) What is Pandas series ? Give example.
- h) What is matplotlib and pyplot ?

PART – B

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UNIT – I

2. a) Explain any four flavors of Python.
- b) How to read different types of input from the keyboard ? Give examples.
- c) Explain use of string.format and f-string with print() function. (4+4+4)
3. a) Explain various data types in Python.
- b) Explain exception handling in Python with try... except... finally block.
- c) With example explain keyword arguments and default arguments to the function. (4+4+4)

P.T.O.



UNIT – II

4. a) Explain split and join methods of string with example.
b) Write a note on indexing and slicing lists.
c) With example explain how to Access and Modify *key:value* Pairs in Dictionaries. **(4+4+4)**
5. a) Explain any four list methods with syntax.
b) Write a Python code to implement stack operations using lists.
c) Explain concatenation and repetition operations on string with example. **(4+4+4)**

UNIT – III

6. a) With example explain how 'with' statement is used to open and close files.
b) What is inheritance ? How to implement inheritance in Python ? Give an example.
c) How to create a button widget and bind it to the event handler ? Explain with example. **(4+4+4)**
7. a) With example explain any two methods to read data from the file.
b) Explain multipath inheritance with example.
c) Explain the process of creating a Listbox widget with a suitable example. Also, explain different values associated with selectmode option. **(4+4+4)**

UNIT – IV

8. a) Explain four SQLite module methods required to use SQLite database.
b) Explain any four NumPy array attributes with usage syntax.
c) Explain any four string processing methods supported by Pandas Library with example. **(4+4+4)**
9. a) Write a Python program to demonstrate any four SQLite Database operations.
b) Explain any four NumPy array creation functions with example.
c) Explain with example any two methods of creating Data Frame. **(4+4+4)**