



DCCA – 401

IV Semester B.C.A. Degree Examination, July/August 2024

(NEP Scheme)

(Freshers and Repeaters)

COMPUTER APPLICATIONS

Python Programming

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer **all** the Parts.

PART – A

I. Answer **any 6** questions. **Each** question carries **2** marks. **(6×2=12)**

- 1) Mention the features of Python.
- 2) List the logical operators in Python.
- 3) What is Raw string ?
- 4) Define scope and lifetime of a variable.
- 5) Define tuples in Python.
- 6) Mention any 2 operations of List.
- 7) List and describe any 2 operations of files in Python.
- 8) What is the purpose of Tkinter module in Python ?
- 9) What are DataFrames in Pandas ?

PART – B

II. Answer **any 4** questions. **Each** question carries **6** marks. **(4×6=24)**

- 10) Describe the Looping statements in Python with example.
- 11) Explain the Exception Handling mechanism in Python with an example.
- 12) Write a Python program to demonstrate the Lists in Python.
- 13) Define Inheritance. Explain the types of Inheritance in Python.
- 14) Explain how to implement the array operations using NumPy.
- 15) What is Data Visualization ? Write a program to draw Line Chart using Matplotlib.

P.T.O.



PART – C

III. Answer **any 3** questions. **Each** question carries **8** marks.

(3×8=24)

- 16) a) Define Identifier in Python. Mention the rules for framing an identifier. 4
b) Mention the steps to Install Python IDE. 4
- 17) a) Write short notes on the following : 4
i) String Concatenation
ii) String Slicing
b) What are user-defined functions ? Write a Python program to demonstrate user-defined functions. 4
- 18) a) Define Dictionaries in Python. Explain any 3 operations of Dictionaries. 4
b) What are Sets ? Describe any 3 operations of sets in Python. 4
- 19) a) What are Files ? Write a Python program to read and write data into a file. 4
b) Explain constructors in Python with an example. 4
- 20) a) Describe windows and widgets in GUI. 4
b) Explain the methods of SQLite module. 4
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