



605370
DCCA303

Reg. No.

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III Semester B.C.A. Degree Examination, March/April - 2024

COMPUTER SCIENCE

Python Programming (Theory)

(NEP Scheme 2021)

Paper : CA-C13T

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer all the sections.

SECTION - A

I. Answer any **Four** questions. Each question carries **2** marks.

(4×2=8)

1. Explain types of comments in python.
2. Give the purpose of Indentation in python.
3. What are actual and formal parameters?
4. What is pickling and unpickling?
5. Differentiate text file and binary file.
6. What is the need of using Matplotlib for data visualization in Python?



SECTION - B

II. Answer any **Four** questions. Each question carries **5** marks.

(4×5=20)

7. Describe decision control flow statements in python.
8. Explain string slicing and joining operations.
9. Explain traversing a list in python with suitable example.
10. Distinguish between single and multiple Inheritance with examples.
11. What are the advantages of using web API?
12. What are the steps followed to plot a simple line graph in python.

[P.T.O.]



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SECTION - C

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

(4×8=32)

13. a) Write a python program to demonstrate basic data types. (4)
b) Explain function definition and function call with examples. (4)
 14. a) Explain the purpose of “return” statement in python. (4)
b) Write a program to accept the radius of a circle from user and compute the area. (4)
 15. a) How membership operators (in and not in) works with a dictionary? (4)
b) Differentiate between Lists and Tuples. (4)
 16. a) Explain access modifiers in python. (4)
b) Explain the steps to create and read a text file in python. (4)
 17. a) Explain method overriding with an example. (4)
b) Discuss the concept of CSV files in python. (4)
 18. a) What are the features of JSON? (4)
b) Explain the plot () method parameters for customizing a line graph. (4)
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