DCCA303

Reg. No.

III Semester B.C.A. Degree Examination, April - 2023
COMPUTER APPLICATIONS
Python Programming
Paper : CA - C13T
(NEP Scheme)

Time : 2½ Hours   Maximum Marks : 60

Instructions to Candidates:

1. Answer any four questions from each part.
2. Answer all parts.

Part - A

I. Answer any **four** questions, Each carries **Two** marks.   (4×2=8)

1. What are python interpreter and python shell?

2. Give the purpose of type ( ) function with an example.

3. Write the syntax of it .... else in python?

4. What is a module in python? Give an example.

5. Define the terms encapsulation and polymorphism.

6. What is Data visualization?

Part - B

II. Answer any **four** questions. Each question carries **five** marks.   (4×5=20)

7. Explain the key features of python.

8. What is indentation on in python? Explain with a suitable example.

9. Write a python program for filter ( ) to filter only even numbers from a given list.

10. Explain indexing and slicing in tuples with an example.

11. Explain the concepts of class and objects in python with an example.

12. Explain file reading and writing process in python with an example.

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Part - C

III. Answer any **four** questions. Each carries **eight** marks. (4×8=32)

13. a. Explain the various built - in functions in python with their syntax and example. (5)

    b. Write a python program to print a number is positive or negative. (3)

14. Explain the concepts of string creating, slicing, comparing and finding sub-string in python with an example.

15. What is a dictionary? Write a python program to create a dictionary and

    a. print the dictionary items.

    b. use get ( )

16. What is inheritance? Explain the different types of inheritance in python with an example.

17. a. Explain the set data type with suitable example. (4)

    b. Create a list in python and apply. (4)

    i. Slice operator.   ii. append ( )

    iii. Pop ( )   and   iv. len ( ).

18. What is CSV file in python? Write a python code to read a CSV file using pandas module and print the first and last five lines of a file.

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