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SDCCA-401

IV Semester B.C.A./B.C.A.(DS) Degree Examination, June / July - 2026
(SEP Scheme Freshers)
COMPUTER APPLICATION
Python Programming

HORIZON COLLEGE LIBRARY KASTURINAGAR BANGALORE-43

Time : 3 Hours **Maximum Marks : 80**

Instructions: *Answer All the Sections.*

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks. **(10×2=20)**

1. What is keyword? Give two examples.
2. Why python is called as dynamically typed language?
3. What is type conversion?
4. List any two types of errors in Python.
5. Define string concatenation with an example.
6. How do you create a tuple? Give an example.
7. Define Object and Class.
8. Differentiate between set and list.
9. Define encapsulation.
10. What are file modes? Give any two examples.
11. Name any two Tkinter widgets.
12. What is a cursor in SQLite?

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SECTION - B

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. Write a note on Python libraries and their usage.

14. Explain if-elif-else statement with an example.

15. Explain try, except, and finally blocks with syntax.

16. Write a Python program to find factorial of a number using recursion.

17. Explain creation of list and tuples with an example.

18. Explain Encapsulation and Polymorphism.

19. Write a Python program to create, write, read, and append data to a file.

20. Write a short note on data visualization and Matplotlib library.

SECTION - C

III. Answer any Three questions. Each question carries 10 marks. (3×10=30)

21. a) Explain different data types in Python programming with an example. **(5)**
    b) Write a Python program demonstrating exception handling. **(5)**

22. a) Write a detailed note on Python string methods with examples. **(5)**
    b) Differentiate between dictionary and set. **(5)**

23. a) Write a Python program to implement operator overloading. **(5)**
    b) Describe different types of inheritance in Python. **(5)**

24. a) Explain operations on NumPy arrays with an examples. **(5)**
    b) Write a Python program to draw a bar chart and line chart. **(5)**