SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.
B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022
SEMESTER - II

21UCSCT2003 - Programming using Python

Total Duration : 2 Hrs 30 Mins. Total Marks : 60

Section A

Answer any **SIX** questions $(6 \times 5 = 30$ Marks)

1. Describe the different types of built in functions in Python.
2. Differentiate break and continue statement with suitable example,
3. Outline the uses of dictionaries in Python with example.
4. Elucidate the different packages available in Python.
5. Create a student class with 2 attributes and display these attribute values through object.
6. Extend your view on operator overloading.
7. Differentiate Serialization and Deserialization with Illustration.
8. Demonstrate the usage of different file modes in python.

Section B

Answer any **THREE** questions $(3 \times 10 = 30$ Marks)

9. (i) Generate the Fibonacci series using while loop
   (ii) Write a python code to check the given number is prime or not.
10. (i) Write a function that takes a list of numbers and returns the cumulative sum, For example the cumulative sum of [1 2 3] is [1 3 6]
    (ii) "Tuples are immutable" justify your answer.
11. Write a detail note on Recursive and Lambda functions with suitable example.
12. Classify the different types of Inheritance in python.
13. Illustrate the exception handling mechanism in python.

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