

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.AI - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - II

22UAICT2002 - Problem Solving Using Python

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. What is computational problem solving? Why is it important in computer programming?
2. What are literals in Python? Give examples of different types of literals.
3. Describe how multi-way selection can be implemented using if, elif, and else statements. Give a basic example.
4. Compare and contrast definite and indefinite loops.
5. How do you define a function in Python? Give a simple example.
6. Explain how keyword arguments work in Python functions.
How do they enhance the readability of code?
7. Describe how Turtle Graphics can be used to create drawings in Python.
Give an example.
8. Explain how sets can be useful for handling unique items in a python program.

Section C

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

9. Discuss the different types of operators in Python and give an examples.
10. Examine the features of lists in Python with example.
11. Compare and contrast different methods of parameter passing in Python with examples.
12. Analyze the difference between built-in modules and user-defined modules in Python with example.
13. Discuss about inheritance in Python. How can it simplify code and make it more reusable?
