

**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.**

M.Sc. - END SEMESTER EXAMINATIONS NOVEMBER - 2022

SEMESTER - III

20PAMET3003 - Python Programming

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

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

1. What are the differences between C and Python?
2. Give the Python code to find the minimum among the list of 10 numbers.
3. What are operators in Python? Describe specifically about identity operator and membership operator.
4. Evaluate the following expressions in Python
 - i) $24 // 6 \% 3$
 - ii) $\text{float}(4 + \text{int}(2.39) \% 2)$
 - iii) $2 ** 2 ** 3$
5. Write a python program to rotate a list by right n times with and without slicing technique.
6. Is it possible to return tuple as values? Justify your answer with an example.
7. What are fruitful function? Explain with an example.
8. Examine the benefits of Python for Database Programming.

Section B

Part A

Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Illustrate a program to display different data types using variables and literal constants.
10. Write a Python code to search a string in the given list.
11. Explain briefly the various operations that can be performed on tuples.
12. With an example, explain Database Application Programmers Interface.

Part B

Compulsory question ($1 \times 10 = 10$ Marks)

13. What are modules in python? How do you import them? Explain the concept by creating and importing a module.

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