



K24U 2724

Reg. No. :

Name :

**V Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2024
(2019 to 2022 Admissions)
CORE COURSE IN COMPUTER SCIENCE
5B10CSC : Computation Using Python**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions.

(6×1=6)

1. What is a slice operator ?
2. What is the purpose of the import statement ?
3. Evaluate the following expression – $7*20 + 8/16 * 2 + 54$.
4. What is the purpose of finally block ?
5. What is ndarray ?
6. What is a tuple?

**PART – B
(Short Essay)**

Answer **any 6** questions.

(6×2=12)

7. Compare while and for loop statements.
8. What is a nested list ?
9. What is data abstraction? How is it implemented in Python ?
10. What is the use of the Entry widget in Tkinter ?

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11. What are the precedence rules of operators in Python ?
12. Explain various file opening modes in python.
13. How is a class defined in python ? Give the syntax.
14. What is the use of the break and continue statement ?

PART – C

(Essay)

Answer **any 4** questions.

(4×3=12)

15. Explain the concept of class with an example.
16. Explain any 2 functions from Math module.
17. Write a note on concept of Polymorphism in python.
18. What is the difference between a scatter plot and a line plot in Matplotlib ?
19. What steps are required to connect to a Database in Python ?
20. Write an interactive program to perform arithmetic operations on two integers based on users choice.

PART – D

(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain about the Operator precedence rules in python with examples.
 22. Explain the exception handling mechanism in Python.
 23. Explain any 5 Widgets in Tkinter.
 24. What are Python Functions ? Explain the different types of Function Arguments.
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