



**K22U 2294**

Reg. No. : .....

Name : .....

**V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, November 2022  
(2019 Admission Onwards)  
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 the purpose of using zeros function in numpy module ?
2. What is meant by exception ? Give example.
3. Define keyword in python. Give four examples.
4. Explain the use of linspace function in numpy with an example.
5. Give syntax for connecting to a database in python.
6. Define the function capitalize ( ). What will be the output of print ("abc. DEF".capitalize()) ?

**PART – B  
(Short Essay)**

Answer **any 6** questions.

**(6×2=12)**

7. Explain string slices in python.
8. What are the different methods to Run Python ? Explain any four methods.

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9. Explain comparison operators in python with suitable example.
10. Differentiate between recursion and iteration.
11. Explain any four data visualization functions in Python with suitable example.
12. Define overflow and underflow errors occur in programming.
13. Explain 2 different methods for changing the shape of an array.
14. Explain input, output function in python.

**PART – C**  
**(Essay)**

Answer **any 4** questions.

**(4×3=12)**

15. Write a Python program to perform linear search.
16. Explain the object oriented features of Python.
17. Write a Python program to reverse a number.
18. How to fetch data from a database ?
19. Mention five benefits of using Python.
20. Explain how operator overloading can be done in Python with an example.

**PART – D**  
**(Long Essay)**

Answer **any 2** questions.

**(2×5=10)**

21. Explain the control statements in Python.
  22. Write a python program for finding the product of two matrices.
  23. What are the basic list operations that can be performed in Python ? Explain each operation with its syntax and example.
  24. Explain basic operations on Database.
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