



K25U 2473

Reg. No. :

Name :

**V Semester B.C.A. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2025
(2019 to 2023 Admissions)
Core Course
5B14BCA : PYTHON PROGRAMMING**

Time : 3 Hours

Max. Marks : 40

**SECTION – A
(Short Answer)**

Answer **all** questions.

(6×1=6)

1. Name any one mutable data type in Python.
2. What does the input() function do ?
3. What is a dictionary in Python ?
4. Write the syntax for defining a function.
5. Name a NumPy array creation function.
6. What is a layout manager in Tkinter ?

**SECTION – B
(Short Essay)**

Answer **any 6** out of the 8 questions.

(6×2=12)

7. Write a short note on the enumerate() function.
8. What is the purpose of comments in Python ?
9. Explain keyword and default arguments.
10. Describe file handling operations in Python.

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K25U 2473



11. Write a short note on class and object creation.
12. What is the use of the reshape() function in NumPy ?
13. Explain the role of cursor in database connectivity.
14. Discuss Message and Text widgets in Tkinter.

**SECTION – C
(Essay)**

Answer **any 4** out of the 6 questions.

(4×3=12)

15. Write a program to check whether a number is prime.
16. What are built-in exceptions ? Explain with examples.
17. Explain array indexing and slicing in NumPy.
18. How do you perform transaction control in Python ?
19. Describe GUI programming using Checkbutton, Listbox and Canvas.
20. Discuss the use of the import statement and its variants.

**SECTION – D
(Long Essay)**

Answer **any 2** out of the 4 questions.

(2×5=10)

21. Write a Python program to implement the Fibonacci sequence using recursion.
 22. Explain built-in and user-defined modules in Python with examples.
 23. Write the code to create and display a bar chart using Matplotlib.
 24. Write a GUI program using Entry widgets to build a simple login form.
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