Reg. No. : ....

Name : ....

V Semester B.C.A. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/ Improvement) Examination, November 2023
(2019 – 2021 Admissions)
Core Course
5B14BCA : PYTHON PROGRAMMING

Time : 3 Hours   Max. Marks : 40

SECTION – A

Answer **all** questions.   (6×1=6)

1. The output of >>> str1= "python" >>>str1[–1] is

2. The _____ data structure is an unordered collection of elements which avoid duplicates.

3. Let s = [1, 2, 3]. The output of s * 2 =

4. _____ is the method used to open a file.

5. Give any 2 examples for built-in modules.

6. _____ is a library in Python used for data visualization.

SECTION – B

Answer **any 6** questions.   (6×2=12)

7. Differentiate a tuple from a list.

8. What is the purpose of import statement in Python ? Give example.

9. What are the properties of dictionary keys ?

10. What is readlines() in file handling ?

11. What do you mean by built-in exception ? Give example.

12. What is the use of subplot() function in matplotlib ?

13. What is the purpose of fetchall() function in Python ?

14. What is a menu widget ?

SECTION – C

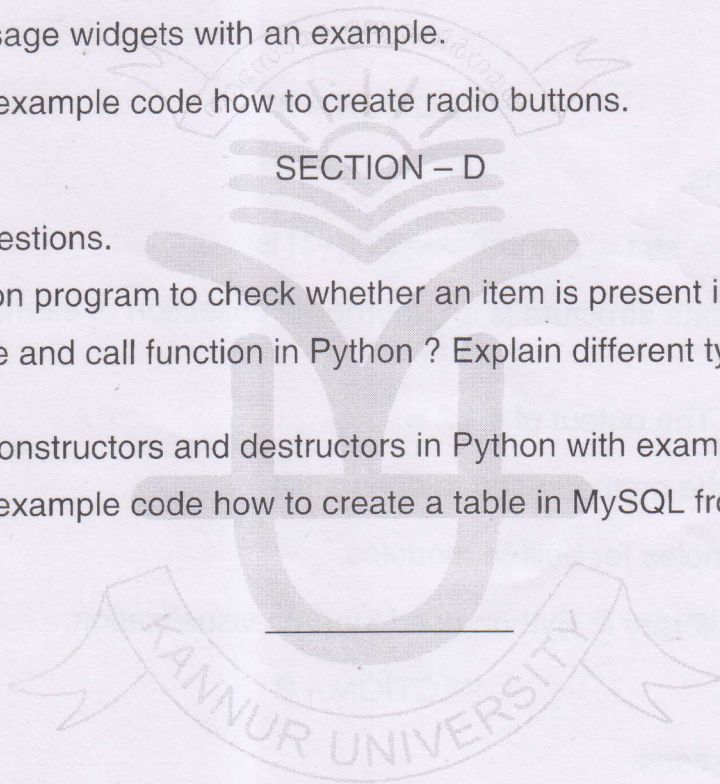Answer **any 4** questions.   (4×3=12)

15. Explain the string functions replace() and split() in Python with examples.

16. Explain with an example, the higher order function map() in Python.

17. What is the difference between dict.clear() and del dict ?

18. Explain the use of reshape() and transpose() in numpy.

19. Explain message widgets with an example.

20. Explain with example code how to create radio buttons.

SECTION – D

Answer **any 2** questions.   (2×5=10)

21. Write a Python program to check whether an item is present in a list.

22. How to define and call function in Python ? Explain different types of function arguments.

23. Explain the constructors and destructors in Python with example.

24. Explain with example code how to create a table in MySQL from Python.

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PART – A
(Short answer)

Answer **all** questions.   (6×1=6)

1. What is commit operation ?

2. Which is the difference between Mutable and Immutable objects ?

3. What are the different numerical types supported by Python ?

4. List out Basic operations on Arrays.

5. What is PYTHONPATH variable ?

6. Which method is used to disconnect a database ?

PART – B
(Short essay)

Answer **any 6** questions.   (6×2=12)

7. How do you plot the mathematical function sin x ?

8. What is NumPy Arrays ?

9. List out some Data type conversion functions.

10. How do you create class in Python ?

11. What are Built-in Methods of List ?

12. What are the arithmetic operations on Arrays ?

13. What is Cursor object ?

14. What is Data Visualization in Python ?

PART – C
(Essay)

Answer **any 4** questions. (4×3=12)

15. Briefly explain features of Python.

16. What are Layout Managers in Python GUI ?

17. Differentiate Global variables and Local variables with suitable example.

18. Which are Assignment Operators ?

19. What are the built-in functions to read data from standard input ?

20. What are Database exceptions ?

PART – D
(Long essay)

Answer **any 2** questions. (2×5=10)

21. Describe Class Inheritance.

22. How do you fetch data from a Database ?

23. Describe standard exceptions in Python.

24. What is Tkinter ? List out Tkinter Widgets.

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PART – A
(Short Answer)

Answer **all** questions.

1. Write an output function of Python.

2. What is function definition ?

3. Define an object.

4. What are built in attribute methods ?

5. Expand GUI.

6. Give an example for amutable datatype.

(6×1=6)

PART – B
(Short Essay)

Answer **any six** questions.

7. What is the use of range function ?

8. How to plot x^2 in python ?

9. Write the syntax to delete records from a database.

10. What is exception handling ?

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11. Write a Python function to find the largest of two numbers.

12. Explain recursion with an example.

13. What is meant by transaction control in databases ?

14. How can you insert records to a database/table ?   **(6×2=12)**

PART – C
(Essay)

Answer **any four** questions.

15. Explain how to connect to a database.

16. Explain numpy module.

17. Explain any three features of Python.

18. How can you fetch records from databases ?

19. Explain any three Layout managers.

20. What is a canvas ? Demonstrate with an example.   **(4×3=12)**

PART – D
(Long Essay)

Answer **any two** questions.

21. Explain any five methods of List data type.

22. How are files handled in Python ?

23. Explain two ways of creating arrays in Python with examples.

24. Explain Radio Button widget with example program.   **(2×5=10)**

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