Advanced Python 3 Marks

2021 – 2022 old – 2022 new -2023

Unit 1

l. Explain Tkinter Button with example.

2. Explain Tkinter LabelFrame with example.

3. Differentiate Text and Entry widget.

4. List various methods of Menu Widget.

5. Explain Recursion with example.

6. Explain Iteration Statements in Python.

7. Explain Tkinter window.

8. Explain Tkinter Pack() method.

9. Explain Tkinter widgets.

10. Explain Tkinter Place() method.

11. Explain T kinter Listbox in brief.

12. Explain Tkinter Entry in brief.

13. Write down the difference between Tkinter Radiobutton & Tkinter Checkbutton.

14. Explain Tkinter Scrollbar with its usage.

15. Explain Tuple data type in Python. (2022 Old 2 mark)

16. Explain split ( ) method with example. (2022 Old 2 mark))

Unit 2

1. What is Numpy? How it is useful?
2. What is Ndarray? Describe its dimensions.
3. Explain multiply (), title () and join() of NumPy.
4. Differentiate copies and views in Numpy.

5. Explain Inheritance in Python.
6. Explain information hiding in detail.

7. Explain NumPy data types.
8. Explain NumPy mathematical Functions.
9. Explain NumPy Ndarray.
10. Explain Bitwise Operators.

11. List out NumPy Data type in brief.
12. Explain sorting & searching operation of NumPy Array in brief.
13. What is the difference between Copies and Views?
14. List out any three String Function with suitable example.

15. Explain Exception handling in brief. (2022 Old 2 mark)
16. Explain polymorphism in brief. (2022 Old 2 mark)

Unit 3

l. How can we do plotting using PyLab.

2. List all markers available in plots.

3. What is thread?

4. How can we start a new thread?

5. Explain plot(), title(), show() with example.

6. Explain Divide and Conquer algorithm

7. Explain MatPlotlib methods.

8. Explain Synchronizing threads.

9. Difference between Python Multithreading and Multiprocessing.

10. Explain scatter() method.

11. Explain Scatter function with suitable example.

12. Explain Thread Priority with its methods.

13. Explain the Thread Synchronization with suitable example.

14. Explain Thread with suitable example.

15. Explain Histogram. (2022 Old 2 mark)

16. Explain Pieplot. (2022 Old 2 mark)

Unit 4

l. Write steps to python program that interact with a MySQL based database.

2. How to create connection with database in python?

3. How to create Database from python?

4. How can we delete object from database in Python?

5. Explain the findall () with an appropriate example.

6. Explain the sub () with an appropriate example.

7. Explain Model class and variable.

8. Explain database fields.

9. Explain database Configuration Django With SQLite.

10. Explain get() and filter() method.

11. Write down the code to create database.

12. Write down the code to create table.

13. Explain get() and filter() method for update operations.

14. Write down the code to insert 5 records in the table (table name: student).

15. Explain the group() (2022 Old 2 mark)

16. What is Regular Expression? (2022 Old 2 mark)

Unit 4

1. What is Django? How it is useful?
2. Write features of Django.
3. Write steps for Django installation.
4. Discuss HttpRequest class.

5. Explain Big Data.
6. Explain Linear & Non-linear Algorithm.

7. Explain advantages of Django.
8. What is MVT architecture?
9. Explain Django project architecture.
10. Explain request-response cycle.

11. Explain HTTP Client-Server-Request—Response.
12. What is the use of urls.py file of Django?
13. Explain MVC pattern.
14. Write down commands of creating project and creating application in Django.

15. What is Predictive model? (2022 Old 2 mark)
16. What is Complexity? (2022 Old 2 mark)