

# Advanced Python 1 Marks

2021 – 2022 old – 2022 new -2023

## Unit 1

1. Tkinter is used to create GUI applications.

2. What is widget?

**Ans:** A widget is an element of a graphical user interface (GUI), such as a button or a text box, that allows users to interact with the application.

3. We can use any number of top-level windows in application. (True/False)

4. Full form of IDLE. - **Integrated Development and Learning Environment**

5. What is the use of triple (""") quotes?

**ANS:** Triple quotes are used for multiline comments, docstrings, and to define multiline strings in Python.

6. Which keyword is used to create user defined function in python? - def

7. The >>> Symbol is a shell prompt in python.

8. import tkinter command used for check Tkinter present on your computer or not.

9. Tkinter is a standard GUI library for python.

10. title() method is used to create and change the name of the window.

11. Define Tkinter Label.

**ANS:** Tkinter Label is a widget used to display text or images.

12. Define Tkinter Button.

**ANS:** Tkinter Button is a widget used to perform an action when clicked.

13. Which Property is use to set the color of the font in Tkinter button? - **fg**

## Unit 2

1. NumPy was created by Travis Oliphant

2. NumPy contains a Matrix Library \_\_\_\_ (**Not Found**)

3. Which function is used to calculate the middle element of data? - median()

4. What is abstract class?

**ANS:** An abstract class is a class that cannot be instantiated on its own and is meant to be subclassed. It may contain abstract methods that must be implemented by its subclasses.

5. What is inner class?

**ANS:** An inner class is a class defined within another class in Python.

6. What is assertion?

**ANS:** Assertion is a statement that checks whether a given condition is true or false. If it's true, the program continues execution; otherwise, it raises an AssertionError.

7. ADT Full form. - **Abstract Data Type**

8. Define NumPy array.

**ANS:** A NumPy array is a multi-dimensional array used for numerical computing in Python.

9. Full form of NumPy. - **Numerical Python**

10. List out Bitwise Operator of Python.

**ANS:** Bitwise Operators of Python are **& (Bitwise AND)**, **| (Bitwise OR)**, **^ (Bitwise XOR)**, **~ (Bitwise NOT)**, **<< (Left Shift)**, **>> (Right Shift)**.

11. NumPy stands for **Numerical Python**

12. NumPy performs array-oriented computing. (**True**/False)

13. Narray stands for **N-dimensional array**

## Unit 3

1. What is PyLab ?

**ANS:** PyLab is a module in Python that combines the functionality of NumPy, SciPy, and Matplotlib into a single namespace, making it easier to work with these libraries for scientific computing and plotting.

2. Plot can be saving in file using savefig() Method

3. put() method adds item to a multithreaded queue.

4. What is PyLab? (**AS ABOVE**)

5. What is Line Plot?

**ANS:** A Line Plot is a type of plot that displays data points as markers connected by straight lines.

6. What is Sub-Plots?

**ANS:** Sub-Plots are multiple plots that are created within the same figure.

7. Define legend ( ) in plots.

**ANS:** legend() method in plots is used to add a legend to the plot, which explains the meaning of each plot element.

8. If you want to install PyLab, you must also install Matplotlib

9. fig() function used to make some changes to figure.

10. **scatter** plot is a type of plot that shows the data as a collection of points.

11. Define thread.

**ANS:** A thread is a single sequence of execution within a process. It enables concurrent execution of tasks within a single process.

12. Which method is use to run the thread? **start()**

13. Which method is use to display the graph? **show()**

## Unit 4

1. **connect()** Function is used to create database connection in mysql with python

2. **fetchone()** Method is used to fetch single record from database table.

3. **close()** Method is used to close current cursor object.

4. Full form of RE. - **Regular Expression**

5. Full form of CSV. - **Comma-Separated Values**

6. Full form of DOM. - **Document Object Model**

7. What is Python XML Parser?

**ANS:** Python XML Parser is a module or library in Python used to parse and manipulate XML data, such as xml.etree.ElementTree or lxml.

8. Django automatically creates a **SQLite** database for your project.

9. By default **settings.py** file is used as a Django setting file.

10. **mysql.connector** module is used to connect python application with the MySQL.

11. Define model.

**ANS:** A model in Django is a Python class that represents a database table.  
It encapsulates the fields and behavior of the data you're storing.

12. Which Query is use to display the data from the table? - **SELECT**

13. Which Query is use to delete the data from the table? - **DELETE**



## Unit 5

1. Write full form of MVT. - **Model-View-Template**

2. **activate** file is run to activate environment for Django project.

3. Which file is used to interact with your Django project via the command line?

- **manage.py**

4. What is Data Frame?

**ANS:** A Data Frame is a two-dimensional labeled data structure in pandas, which is widely used for data manipulation and analysis in Python.

5. What is Data Set?

**ANS:** A Data Set is a collection of data, typically organized in rows and columns, used for analysis or to train machine learning models.

6. What is Regression problem?

**ANS:** A Regression problem is a type of supervised learning problem where the aim is to predict continuous values, such as predicting house prices or stock prices.

7. MSE full form. - **Mean Squared Error**

8. Full form Of WAF is **Web Application Firewall**

9. MVC stands for **Model-View-Controller**

10. When a page is requested, Django creates **HttpRequest** object.

11. Full form of MVT. - **Model-View-Template**

12. Full form of HTTP. - **Hypertext Transfer Protocol**

13. Which command is use to start the Server?

**ANS:** The runserver command is used to start the server in Django.