PYTHON – SELENIUM SYLLABUS

1. Introduction
    a. History
    b. Features
    c. Setting up path
    d. Working with Python
    e. Basic Syntax
    f. Variable and Data Types
    g. Operator

2. Conditional Statements
    a. If
    b. If- else
    c. Nested if-else

3. Looping
    a. For
    b. While
    c. Nested loops

4. Control Statements
    a. Break
    b. Continue
    c. Pass

5. String Manipulation (Key for Interview)
    a. Accessing Strings
    b. Basic Operations
    c. String slices
    d. Function and Methods

6. Lists and Sets
    a. Introduction
    b. Accessing list and sets
    c. Operations
    d. Working with lists and sets
    e. Function and Methods

7. Tuple
    a. Introduction
    b. Accessing Tuples
    c. Operations
    d. Working
    e. Functions and Methods

8. Dictionaries
    a. Introduction Accessing values in dictionaries
    b. Working with dictionaries
    c. Properties
    d. Functions

9. Functions
    a. Defining a function
    b. Calling a function
    c. Types of functions
    d. Function Arguments
    e. Anonymous functions
    f. Global and local variables

10. Modules
    a. Importing module
    b. Math module
    c. Random module
    d. Packages
    e. Composition

11. Input-Output
    a. Printing on screen
    b. Reading data from keyboard
    c. Opening and closing file
    d. Reading and writing files
    e. Functions
12. OOPs concept
    a. Class and object
    b. Attributes
    c. Inheritance
    d. Overloading
    e. Overriding
    f. Data hiding

13. Exception Handling
    a. Exception
    b. Exception Handling
    c. Except clause
    d. Try ? finally clause
    e. User Defined Exceptions

14. Install – Pycharm / pydev
    a. Install python
    b. Install selenium bindings
    c. Install pydev with eclipse
    d. Console on pydev
    e. Install python
    f. Install selenium bindings
    g. Install pydev with eclipse
    h. Console on pydev

15. Browser commands
    a. Open browser in selenium python
    b. Close and quit browsers
    c. Open webpage in selenium python
    d. Browser size in selenium python
    e. Webpage properties
    f. Navigation commands in selenium python

16. Developer tools in firefox and chrome | selenium
    a. Developer tool in chrome
    b. Developer tool in firefox

17. Elements
    a. Web element in python
    b. The priority of locators in selenium
    c. Find element by id
    d. Find element by name.
    e. Find element by tag name
    f. Find element by linked Text/Partial Linked text.
    g. Find element by classname.
    h. Find element by **xpath**.
    i. Find element by css selector.
    j. Find elements

    k. Find element and find elements.
    l. Excellent & reliable selenium python locator

18. Waits
    a. Implicit wait
    b. Explicit wait

19. WebElement commands
    a. Web element operations in selenium python
    b. TextBox
    c. ListBox
    d. Links
    e. Check Box
    f. Radio Button
    g. HTML Tables
    h. Calendars
20. Dropdowns
    a. Dropdowns in python selenium | select
    b. Dropdowns in python selenium | list
21. Popups and Alerts
22. Iframes
23. Handling multiple windows
24. Handling webtables
25. Screenshot
26. Mouse and keyboard Actions
27. Exceptions
28. Handling Files
29. Java Script Executor
30. Logging
    a. Logging with python selenium
    b. Logging in python
    c. Configuring logging
    d. Logging with selenium python
    e. Logging to console with python
    f. Print vs. Logging
31. Excel
    a. Excel spread sheets with python
    b. Openpyxl module with python selenium
    c. Read excel using openpyxl with python selenium
    d. Get all values of a specific column
    e. Write excel file using openpyxl in python selenium
32. Read & write csv file

a. Csv files in python
b. Csv with python selenium
c. Reading a csv file with header
d. Read the urls from the csv file
e. Writing a csv file in python selenium
f. Writing to a file with dictwriter in python selenium
g. Read & write csv files with custom delimiter.

33. Unittest
    a. What is python unittest framework
    b. Things to remember while writing unit tests
    c. Tests in unittest python
    d. Setup, Teardown
    e. Setupclass, Teardownclass
    f. Setupmodule & teardownmodule
    g. Skipping tests and expected failures
34. Assertions
    a. Assertions in unittest python with selenium
35. Load tests and suites
    a. Loading tests to suite and running tests in python selenium
    b. Create test suite
36. PyTest -TDD
    a. What is python Pytest framework
    b. Tests in Pytest python
    c. Setup
    d. Teardown
    e. Skipping tests and expected failures
37. Designing framework with Page Object Model
38. **PyBehave (Similar to Cucumber) –**
    a. What is PyBehave framework
    b. Tests in Behave python
    c. What is Feature
    d. What is Step definition
    e. How to setup runner class
39. Allure Reporting
    a. Configuring Allure Report
40. Interview Questions

Bonus Package

41. GitHub/BitBucket
42. Jenkins