

# GUI Programming in Python Assessment

**1. What is a top-level root windowing object in GUI programming?**

- a. The main application window
- b. A small button widget
- c. A text label
- d. An option in the grid method

**2. Which is the most commonly used GUI toolkit for GUI Programming in Python?**

- a. Tix
- b. wxPython
- c. Pmw
- d. Tkinter

**3. What is the method used in Tkinter to add widgets like labels, buttons, and frames to the main window?**

- a. pack()
- b. grid()
- c. place()
- d. display()

**4. Which method in Tkinter organizes widgets in a tabular form?**

- a. place()
- b. grid()
- c. pack()
- d. tabulate()

**5. What type of widget is used to enter a single line of text in the GUI?**

- a. Button
- b. Checkbutton
- c. Entry
- d. Frame

**6. Which widget acts like a container to hold other widgets in Tkinter?**

- a. Label
- b. Entry
- c. Frame
- d. Listbox

**7. How is the Button widget utilized in Tkinter?**

- a. To display non-editable text
- b. To create a graphical slider
- c. To add various kinds of buttons
- d. To select one option from multiple options

**8. What is the purpose of the Checkbutton widget in Tkinter?**

- a. Display list items
- b. Provide text entry field
- c. Select one or more options
- d. Create buttons in the application

**9. Which widget allows the user to enter multiple lines of text in Tkinter?**

- a. Text
- b. Scale
- c. Radiobutton
- d. Toplevel

**10. What does the Scale widget create in Tkinter?**

- a. Buttons
- b. Text inputs
- c. Graphical sliders
- d. Checkboxes

**11. What is the Toplevel widget used for in Tkinter?**

- a. Creating compound widgets
- b. Displaying top-level windows
- c. Adding new buttons
- d. Organizing multiple widgets

**12. Which library is an extension for Tcl/Tk that adds new widgets and commands?**

- a. Tix
- b. Pmw
- c. wxPython
- d. Tkinter

**13. What is Pmw used for in Python GUI programming?**

- a. Building high-level compound widgets
- b. Creating tabular forms
- c. Displaying list items
- d. Managing the main application window

**14. Which Python package provides a blending of wxWidgets GUI classes and Python?**

- a. Tkinter
- b. Tix
- c. Pmw
- d. wxPython

**15. What is the primary GUI method provided by Python for GUI programming?**

- a. Tix
- b. wxPython
- c. Tkinter
- d. Pmw

**16. How would you create a main window in Tkinter?**

- a. Create a Toplevel widget
- b. Use the place() method
- c. Call the mainloop() method
- d. Utilize the Tk() method

**17. Which method in Tkinter is used to organize components or widgets in the main window?**

- a. organize()
- b. pack()
- c. display()
- d. frame()

**18. What type of widget is used to hold other widgets and acts as a container?**

- a. Button
- b. Label
- c. Frame
- d. Entry

**19. Which method in Tkinter is used to insert list items to a listbox at a specified index?**

- a. add()
- b. place()
- c. grid()
- d. insert()

**20. What is the purpose of the Radiobutton widget in Tkinter?**

- a. Allow users to select one or more options
- b. Display list items
- c. Create horizontal sliders
- d. Select one option among multiple options

Answer Key (Always review AI generated answers for accuracy - Math is more likely to be inaccurate)

1. a

2. d
3. b
4. b
5. c
6. c
7. c
8. c
9. a
10. c
11. b
12. a
13. a
14. d
15. c
16. d
17. b
18. c
19. d
20. d