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. <mark>wxPython</mark>

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

a. Tix
b. wxPython
c. <mark>Tkinter</mark>
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. <mark>Utilize the Tk() method</mark>

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

a. organize()
b. <mark>pack()</mark>
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. <mark>Frame</mark>
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. <mark>insert()</mark>

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. <mark>Select one option among multiple options</mark>

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