Matplotlib Quiz (Easy) **Instructions:** Choose the best answer for each multiple-choice question. 1. What is Matplotlib primarily used for? A) Data manipulation

2. Which of the following is the primary plotting object in Matplotlib?

3. What function is used to create a line plot in Matplotlib?

4. What does 'plt' usually refer to in Matplotlib code?

B) Data visualization

C) Machine learning

D) Web development

Correct Answer: B

Correct Answer: B

Correct Answer: A

A) The `pyplot` module

C) The `Figure` object

D) The `Axes` object

Correct Answer: A

B) The `matplotlib` module

A) Figure

B) Axes

C) Plot

D) Graph

A) `plot()`

B) `bar()`

D) \hist()\

C) `scatter()`

5. Which command displays the plot?
A) `show()`
B) `display()`
C) `render()`
D) `draw()`
Correct Answer: A
6. What function creates a bar chart?
A) `plot()`
B) `bar()`
C) `scatter()`
D) `hist()`
Correct Answer: B
7. What function creates a scatter plot?
A) `plot()`
B) `bar()`
C) `scatter()`
D) `hist()`
D) `hist()` **Correct Answer: C**
Correct Answer: C
Correct Answer: C 8. What function creates a histogram?
Correct Answer: C 8. What function creates a histogram? A) `plot()`
Correct Answer: C 8. What function creates a histogram? A) `plot()` B) `bar()`
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B) `add_title("My Plot")`
C) `set_title("My Plot")`
D) `plot_title("My Plot")`
Correct Answer: C
10. How do you add labels to the x-axis and y-axis?
A) `xlabel()` and `ylabel()`
B) `set_xlabel()` and `set_ylabel()`
C) `x_label()` and `y_label()`
D) Both A and B
Correct Answer: D
11. What is used to customize the appearance of lines in a plot?
A) Line styles
B) Markers
C) Colors
D) All of the above
Correct Answer: D
12. What does the `figsize` argument in `figure()` control?
A) Font size
B) Figure size
C) Plot size
D) Title size
Correct Answer: B
13. What is a legend used for in a plot?
A) To label different data series
B) To add a title

C) To change the colors

D) To add grid lines
Correct Answer: A
14. How do you add a legend to a plot?
A) `add_legend()`
B) `legend()`
C) `show_legend()`
D) `plot_legend()`
Correct Answer: B
15. Which object is used to annotate points on a plot?
A) `annotate()`
B) `label()`
C) `comment()`
D) `mark()`
Correct Answer: A
16. What does `plt.savefig()` do?
A) Displays the plot
B) Saves the plot to a file
C) Closes the plot
D) Clears the plot
Correct Answer: B
17. What type of chart is best suited for showing the proportion of different categories?
A) Line chart
B) Scatter plot
C) Pie chart
D) Bar chart
Correct Answer: C

18. How do you create subplots in Matplotlib?
A) `subplot()`
B) `subplots()`
C) `sub_plots()`
D) `multiple_plots()`
Correct Answer: B
19. What does `plt.grid()` do?
A) Adds a legend
B) Adds a title
C) Adds a grid to the plot
D) Saves the plot
Correct Answer: C
20. Is Matplotlib a standalone library or does it depend on other libraries?
A) Standalone
B) Depends on other libraries like NumPy
C) Depends on Pandas only
D) Depends on Scikit-learn only
Correct Answer: B