MATLAB Quiz 5

Total points 10/10

The respondent's email (**amlali98eg@gmail.com**) was recorded on submission of this form.

✓ What is the purpose of conditional statements (if...else) in MATLAB? *   1/1

○ a) To store data in variables

○ b) To perform mathematical operations

◉ c) To control the flow of a program based on specified conditions   ✓

○ d) To create plots and graphs

✓ In MATLAB, which of the following is true regarding the syntax of an if   *1/1
statement?

○ a) It must end with a semicolon.

◉ b) It can have multiple conditions within a single if statement.   ✓

○ c) It requires a "then" keyword.

○ d) It does not allow the use of logical operators.

✓ What will the following MATLAB code output? *   1/1

```
x = 7;
if x > 5
    disp('x is greater than 5');
else
    disp('x is less than or equal to 5');
end
```

◉ a) 'x is greater than 5'   ✓

○ b) 'x is less than or equal to 5'

○ c) Error: Syntax is incorrect

○ d) 'x is equal to 5'

✓ Which MATLAB function is used to create plots and graphs? *   1/1

○ a) disp()

○ b) input()

◉ c) plot()   ✓

○ d) for()

✓ Which of the following statements is true about the plot() function in MATLAB?   *1/1

○ a) It is used for text output.

○ b) It can only create line plots.

○ c) It requires no input arguments.

◉ d) It is used to display graphical data.   ✓

✓ To create a plot with markers (dots) in MATLAB, which property should be set in the plot() function?   *1/1

○ a) Color

○ b) LineStyle

◉ c) Marker   ✓

○ d) Title

✓ In MATLAB, what is the role of the title() function when creating a plot? *   1/1

○ a) It specifies the size of the plot.

○ b) It sets the color of the plot.

◉ c) It adds a title to the plot.   ✓

○ d) It defines the x and y axes.

✓ Which MATLAB function converts a number into a character representation?   *1/1

○ a) char(num)

○ b) int2str(num)

○ c) num2char(num)

◉ d) num2str(num)   ✓

✓ In MATLAB, which of the following options correctly plots a red dashed line with square markers?   *1/1

◉ a) plot(x, y, 'r-d')   ✓

○ b) plot(x, y, 'red dashed square')

○ c) plot(x, y, 'r', 'd')

○ d) plot(x, y, 'color', 'red', 'line', 'dashed', 'marker', 'square')

✓ What is the purpose of using the hold on command in MATLAB when creating multiple plots?   *1/1

○ a) It creates a new figure window for each plot.

○ b) It erases the current plot.

◉ c) It retains the current plot for subsequent plots.   ✓

○ d) It toggles the visibility of the plot.

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