Quiz 1

**Question 1**

*Which of the following is a principle of analytic graphics?*

1. Show comparisons
2. Don't plot more than two variables at at time
3. Show box plots (univariate summaries)
4. Make judicious use of color in your scatterplots
5. Only do what your tools allow you to do

Answer: 1

**Question 2**

*What is the role of exploratory graphs in data analysis?*

1. They are made for formal presentations.
2. Axes, legends, and other details are clean and exactly detailed.
3. Only a few are constructed.
4. They are typically made very quickly.

Answer: 4

**Question 3**

*Which of the following is true about the base plotting system?*

1. Margins and spacings are adjusted automatically depending on the type of plot and the data
2. Plots are typically created with a single function call
3. Plots are created and annotated with separate functions
4. The system is most useful for conditioning plots

Answer: 3

**Question 4**

*Which of the following is an example of a valid graphics device in R?*

1. A PDF file
2. A file folder
3. A socket connection
4. The keyboard

Answer: 1

**Question 5**

*Which of the following is an example of a vector graphics device in R?*

1. PNG
2. TIFF
3. SVG
4. JPEG
5. GIF

Answer: 3

**Question 6**

*Bitmapped file formats can be most useful for*

1. Plots that require animation or interactivity
2. Plots that are not scaled to a specific resolution
3. Plots that may need to be resized
4. Scatterplots with many many points

Answer: 4

**Question 7**

*Which of the following functions is typically used to add elements to a plot in the base graphics system?*

1. boxplot()
2. plot()
3. text()
4. hist()

Answer: 3

**Question 8**

*Which function opens the screen graphics device for the Mac?*

1. quartz()
2. pdf()
3. bitmap()
4. png()

Answer: 1

**Question 9**

*What does the 'pch' option to par() control?*

1. the orientation of the axis labels on the plot
2. the line width in the base graphics system
3. the plotting symbol/character in the base graphics system
4. the size of the plotting symbol in a scatterplot

Answer: 3

**Question 10**

*If I want to save a plot to a PDF file, which of the following is a correct way of doing that?*

1. Open the screen device with quartz(), construct the plot, and then close the device with dev.off().
2. Construct the plot on the PNG device with png(), then copy it to a PDF with dev.copy2pdf().
3. Open the PostScript device with postscript(), construct the plot, then close the device with dev.off().
4. Construct the plot on the screen device and then copy it to a PDF file with dev.copy2pdf()

Answer: 4