Quiz

EA31

February 1, 2018

1. The default prompt symbol is

   A. >
   B. − >
   C. &
   D. >>

2. R relies on functions with specific syntax. What symbols are required for a function to work?

   A. Semicolon
   B. Periods
   C. Opening and closing parentheses
   D. Specific numeric combinations

3. R is case-sensitive

   True
   False

4. The expression 2ˆ4 returns:

   A. 2
   B. 8
   C. 16
   D. 24

5. To create a vector one would use the following function:

   A. vector.new()
   B. c()
   C. new.vector()
   D. C()
   E. None of the above

6. To assign the results of a function to an object, you can use which **two** methods:

   A. $- >$
   B. $=$
   C. $==$
   D. $<<>>$

7. To determine how many values are in a numeric vector, one would use the following function:

   A. count()
   B. values()
   C. length()
   D. sum()

8. To create a data frame we use the following function:

   A. data.frame()
   B. dataframe()
   C. data.framenew()
   D. newdataframe()

9. To extract the variable "Temp" from "Claremont" dataframe, you would type

   A. Temp$Claremont
   B. Temp$Claremont()
   C. var(Temp$Claremont)
   D. Claremont$Temp

10. We want to select the second column from a data frame called Mangroves, which expression is correct:

A. Mangroves[1,2]
B. Mangroves[2]
C. Mangroves[,2]
D. Mangroves[2,1]

11. What is the symbol for missing values in R?

A. na
B. Na
C. NaN
D. NA

12. What will these lines produce?

```
mm <- function(Vmax, Ks, S) {
V <- Vmax* (S/(Ks + S))
return(V)
}
```

A. I have no idea.
B. A function named "mm".
C. An error message that is nearly impossible to interpret.
D. The value of V

13. To get the path and file name using a popup window, you can use the following function:

A. get.file()
B. file.choose()
C. find.file()
D. file()

14. To view the first six observations of a dataframe you can use the following function:

A. topsix()
B. head()
C. show()
D. run6()

15. What functions would you use to get the mean and standard deviation of a vector?

    A. average(); stdev()
    B. average(); sd()
    C. mean(); stdev()
    D. mean(); sd()

16. If you want make a scatter plot you would use the following function:

    A. plot.scatter()
    B. chart()
    C. barplot()
    D. plot()

17. If you wanted to determine if two variables have a linear relationship, you can create a model in R using the following function:

    A. model()
    B. lm()
    C. correlation()
    D. linear()

18. What are some characteristics of good graphics?

    A. Lack unnecessary ink
    B. Effective labeling
    C. Can be easily read at a distance
    D. Axes are clearly labeled that include units
    E. The legend is large enough to see and read
    F. The lines can be interpreted in a color and black and white scheme.
    G. All of the above.

19. What is the function to extract the slope and intercept from a linear model?

    A. abline()
    B. coef()
    C. Coef()
    D. slopeinter()
    E. SlopeInter()

20. Which function can be used to overlay a line onto a plot?

    A. abline()
    B. bestline()
    C. fitline()
    D. drawline()