Introduction to Data Science

Instructor: Daniel D. Gutierrez

MODULE 2 QUIZ

Question 1

If you have two vectors x <- c(1,3,5) and y <- c(3,2,10), what is produced by the expression rbind(x,y)?

- (a) a 2 by 2 matrix
- (b) a vector of length 2
- (c) a 2 by 3 matrix
- (d) a 3 by 3 matrix

Question 2

Let's say you have a list defined as x <- list(2, `a", `b", TRUE). What does the expression x[[1]] give you?

- (a) a list containing the letter "a"
- (b) a character vector containing the element "2"
- (c) a numeric vector of length 1
- (d) a list containing the number 2

Question 3

What is the output of the following R script?

```
> x < -c(1,2,NA,4,5,NA)
```

- > good <- !is.na(x)</pre>
- > mean(x[good])
 - (a) 3.5
 - (b) 6

- (c) 3
- (d) 2

Question 4

Let's say you have a vector x < -c(3, 5, 1, 10, 12, 6) and you want to set all elements of this vector that are less than 6 to be equal to zero. What R code achieves this?

- (a) x[x < 6] < -0
- (b) x[x >= 6] <- 0
- (c) x[x == 6] <- 0
- (d) x[x > 6] < 0

Question 5

A vector is defined using the following assignment statement: y < -c(6, 1:3, NA, 12) and you want to select all elements of this vector that are greater than 5. What R code achieves this?

- (a) y[y < 5]
- (b) subset(y, y > 5)
- (c) !is.na(y)>5
- (d) y[!is.na(y)>5]