R-Programming MCQ6

1.Which command should you use to retrieve the means for each row in a matrix named myMatrix?

a.colMeans(myMatrix)

b.rowMeans(myMatrix)

c.apply(myMatrix,mean)

d.row.mean(df)

2._____ applies a function over the margins of an array

a.apply( )

b.mapply( )

c.tapply( )

d.lapply( )

3.The _____ function takes a vector or other objects and splits it into groups determined by a factor or list of factors.

a.mapply( )

b.isplit( )

c.apply( )

d.split( )

4._____ loop over a list and evaluate a function on each element

a.apply( )

b.tapply()

c.sapply( )

d.lapply( )

5.Point out the wrong statement?

a) Multi-line expressions with curly braces are just not that easy to sort through when working on the command line

b) lappy() loops over a list, iterating over each element in that list

c) lapply() does not always returns a list

d) You cannot use lapply() to evaluate a function multiple times each with a different argument

6.Which of the following is multivariate version of lapply?

a) apply()

b) lapply()

c) sapply()

d) mapply()

7.What will be the output of the following R code?

```
> x <- list(a = 1:5, b = rnorm(10))
> lapply(x, mean)
```

a)

```
$a
[1] 3
$b
[1] 0.1322028
```

b)

```
$a
[1] 4
$b
[1] 0.1322028
```

c)

```
$a
[1] 5
$b
[1] 0.1322028
```

d)

```
$a
[2] 5
$b
[1] 3
```

8.What will be the output of the following R code?

```
> g <- function(x) {
+              a <- 3
+              x+a+y
+            ## 'y' is a free variable
+ }
> y <- 3
> g(2)
```

a) 9

b) 42

c) 8

d) Error

9. What will be the output of the following R code snippet?

> lm <- function(x) { x * x }

> lm

a) function(x) { x * x }

b) func(x) { x * x }

c) function(x) { x / x }

d) function { x $ x }

10. _____ function is used in applying a function each level of factors.

a) With()

b) By()

c) To()

d) Here()