R Programming – A622

1. Identify the output of the following code.

```r
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 [1] 6
$b [1] 0.1322028

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2. Which one of the following options will install dplyr?
A. installall.packages("dplyr")
B. install.packages("dplyr")
C. installed.packages("dplyr")
D. installany.packages("dplyr")

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3. If linear regression model perfectly fits the training data (training error = 0), then _____.
A. Test error is also always zero
B. Test error is non-zero
C. Cannot comment on test error
D. Test error equals to train error

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4. What does A stand for in CRAN?
A. Acknowledge
B. Archive
C. Applied
D. Academic

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5. _____ is an open source language used as statistical and visualization software.
A. R
B. Python
C. C++
D. Java

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6. Which software does not recognize R?
A. SAS
B. Python

C. C
D. C++

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7. In 'int a=5' statement, what is 'int'?
A. Data Structure
B. Data Type
C. Data Base
D. Data Variable

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8. What is the output of 5%%2?
A. 2
B. 3
C. 1
D. 0

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9. What is the output of 9%/%2?
A. 8
B. 4
C. 3
D. 1

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10. What is the output of 4^3?
A. 72
B. 41
C. 64
D. 20

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11. What is the output of 2!=3?
A. FALSE
B. TRUE
C. Cannot Say
D. None of these

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12. X = Factor, Y = Numeric. Which one of these is a data structure and a data type?
A. X is a data structure, Y is a data type
B. Both X and Y are data type
C. Both X and Y are data structure
D. X is a data type and Y is a data structure

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13. To comment in R software, which character is placed at the beginning?
A. *
B. ##
C. #
D. **

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14. In R, by default, matrix is filled _____.
A. row-wise

B. column-wise
C. Rand only
D. First row, then column

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15. Elements in R are accessed using _____.
A. []
B. {}
C. ()
D. [{}]