Great 👍
Here’s your **R Programming - A622** paper in **MCQs format (A, B, C, D)**:

R Programming - A622

Q1. What is the output of `2 != 3`?
A. FALSE
B. TRUE
C. Cannot Say
D. None of these

Q2. If `x = 1, y = 2`, what is the output of `x == 1 || y == 3`?
A. TRUE
B. FALSE
C. Cannot Say
D. None of these

Q3. What is the output of `x < 1 && y > 4`, if `x = 1, y = 2`?
A. TRUE
B. FALSE
C. Cannot Say
D. None of these

Q4. What is the output of the following code?

```R
Age <- 20
if (Age > 18) {
    print("Major")
} else {
    print("Minor")
}
```

A. Major
B. Minor
C. Code Wrong
D. None of these

Q5. In R, by default, a matrix is filled _____.
A. row-wise
B. column-wise
C. Rand only
D. First row, then column

Q6. Elements in R are accessed using _____.
A. \[]
B. {}
C. ()
D. \[{}]

Q7. In a 3-dimensional array, the order of an array is `C(3,4,2)`. What does each number represent?
A. 3 is the number of rows, 4 is the number of columns, 2 is the number of matrix
B. 4 is the number of rows, 2 is the number of columns, 3 is the number of matrix
C. 2 is the number of rows, 4 is the number of columns, 3 is the number of matrix
D. 4 is the number of rows, 3 is the number of columns, 2 is the number of matrix

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Q8. If you want to access the third row of the second matrix of a 3-dimensional array `A`, what will be the code (considering `A` of order `c(4,4,2)`)?
A. A\[3,3,2]
B. A\[3,,3]
C. A\[3,,1]
D. A\[3,,2]

Q9. 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

Q10. Which one of the following options can be used to evaluate regression models?

(i) R-squared
(ii) Adjusted R-square
(iii) F Statistics
(iv) RMSE/MSE/MAE

A. (ii) and (iv)
B. (i) and (ii)
C. (ii), (iii), and (iv)
D. (i), (ii), (iii), and (iv)

Q11. In the equation `Y = β1 + β2 * X + e`, what do `(β1, β2)` refer to?
A. (X-intercept, Slope)
B. (Slope, X-intercept)
C. (Y-intercept, Slope)
D. (Slope, Y-intercept)

Q12. In `int a = 5` statement, what is `int`?
A. Data Structure
B. Data Type
C. Data Base
D. Data Variable

Q13. What is the output of `5 %% 2`?
A. 2
B. 3
C. 1
D. 0

Q14. What is the output of `9 %/% 2`?
A. 8
B. 4
C. 3
D. 1

Q15. What is the output of `4 ^ 3`?
A. 72
B. 41
C. 64
D. 20