21 When implementing linear regression of some dependent variable y on the set of independent

variables $\mathbf{x} = (x_1, \ldots, x_r)$, where r is the number of predictors, which of the following statements will

be true?

Answer is- d) Both and b

22)

What indicates that you have a perfect fit in linear regression?

Answer is- d) The value $R^2 = 1$, which corresponds to SSR = 0

23)

In simple linear regression, the value of what shows the point where the estimated regression line

crosses the y axis?

Answer is- b) B0

24)

Check out these four linear regression plots:

Which one represents an underfitted model?

Answer is- b) The top-right plot

25)

There are five basic steps when you're implementing linear regression:

• a. Check the results of model fitting to know whether the model is satisfactory.

• b. Provide data to work with, and eventually do appropriate transformations.

• c. Apply the model for predictions.

• d. Import the packages and classes that you need.

• e. Create a regression model and fit it with existing data.

However, those steps are currently listed in the wrong order. What's the correct order?

Answer is- c) d, e, c, b, a

26) Which of the following are optional parameters to LinearRegression in scikit-learn?

Answer is- b) fit_intercept

27) While working with scikit-learn, in which type of regression do you need to transform the array of

inputs to include nonlinear terms such as x^2?

Answer is- c) Polynomial regression

28) You should choose statsmodels over scikit-learn when:

Answer is- c) You need more detailed results.

29) _____ is a fundamental package for scientific computing with Python. It offers

comprehensive mathematical functions, random number generators, linear algebra routines, Fourier

transforms, and more. It provides a high-level syntax that makes it accessible and productive.

Answer is- b) Numpy

30) _____ is a Python data visualization library based on Matplotlib. It provides a high-level

interface for drawing attractive and informative statistical graphics that allow you to explore and

understand your data. It integrates closely with pandas data structures.

Answer is- b) Seaborn