Q 21) When implementing linear regression of some dependent variable y on the set of independent variables $\mathbf{x} = (x_1, …, x_r)$, where r is the number of predictors, which of the following statements will be true?

Ans :- (d) Both (a) And (b)

Q 22) What indicates that you have a perfect fit in linear regression?

Ans :- (d) The value R^2 = 1, which corresponds to SSR = 0

Q 23) In simple linear regression, the value of what shows the point where the estimated regression line crosses the y axis?

Ans :- (b) Bo

Q 24) Check out these four linear regression plots:
        Which one represents an underfitted model?

Ans :- (d) The top-left plot

Q 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?

Ans :- (d) d, b, e, a, c

Q 26) Which of the following are optional parameters to Linear Regression in scikit-learn?

Ans :- (b) fit intercept (c) normalize (d) copy X (e) n jobs

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 ?

Ans :- (c) Polynomial regression

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

Ans :- (c) You need more detailed results.

Q 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.

Ans :- (b) Numpy

Q 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.

Ans :- (b) Seaborn