File2

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

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

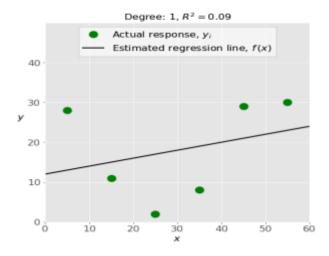
Ans. d) The value $R^2 = 1$, which corresponds to SSR = 0

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

Ans. b) B0

24) Check out these four linear regression plots:

Which one represents an underfitted model?



Ans. d) The top-left 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?
Ans. d) d, b, e, a, c
26) Which of the following are optional parameters to LinearRegression 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
28) You should choose statsmodels over scikit-learn when:
Ans. 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.
Ans. b) Numpy

30)	is a Python data visualization library based on Matplotlib. It provides a high-leve
interface for dra	awing attractive and informative statistical graphics that allow you to explore and
understand you	r data. It integrates closely with pandas data structures.

Ans. b) Seaborn