MCQ ANSWERS (FILE 2)

21) When implementing linear regression of some dependent variable on the set of independent variables = (1, ..., r), where is the number of predictors, which of the following statements will be true? Ans: d) Both and b 22) What indicates that you have a **perfect fit** in linear regression? Ans: d) The value $^2 = 1$, which corresponds to SSR = 023) In simple linear regression, the value of **what** shows the point where the estimated regression line crosses the axis? Ans : b) B0 24) Check out these four linear regression plots: Ans: a) The bottom-left plot 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. \Box **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?a) e, c, a, b, d Ans : c) d, e, c, b, a 26) Which of the following are optional parameters to LinearRegression in scikit-learn? a) Fit Ans: b) fit_intercept c) normalize d) copy_X 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 ²?

Ans: c) Polynomial regression

28) You should choose statsmodels over scikit-learn when: Ans: A)You want graphical representations of your data. c) You need more detailed results.

,	is a fundamental package for scientific computing with Python. It offers
	e mathematical functions, random number generators, linear algebra routines,
Fourier	
	d more. It provides a high-level syntax that makes it accessible and productive.
Ans: b) Num	ру
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,	_ is a Python data visualization library based on Matplotlib. It provides a high-
level	
interface for di	rawing attractive and informative statistical graphics that allow you to explore
and	
understand you	ur data. It integrates closely with pandas data structures.

Ans: b) Seaborn