Answers to MCQs

21. (b) - Linear regression is about determining the **best predicted weights** by using the **method of ordinary least squares.**

22. (d) - The value $R^2 = 1$, which corresponds to **SSR = 0** indicates a perfect fit in linear regression.

23. (b) - βo represent the point where the estimated **regression line** crosses the y axis.

24. (d) - Top-left plot shows the under-fitted model because $\mathbf{R^2 = 0.09}$

25. (d) is the correct order for **implementing linear regression**

26. (b, c, d, e) - fit_intercept, normalize, copy_X , n_jobs are optional parameters to linear regression in scikit learn.

27. (c) - Polynomial regression includes nonlinear terms such as x^2.

28. (c) – we should choose stats-models over scikit-learn if want more detailed results.

29. (b) - NumPy is a fundamental package for scientific computing with Python

30. (b) - Seaborn is a Python data visualization library based on Matplotlib.