**Answers**

1. **A**
2. **A**
3. **B**
4. **B**
5. **C**
6. **B**
7. **D**
8. **D**
9. **A**
10. **B**
11. **D**
12. **A, B and C**
13. **Regularization**

It is a technique used in machine learning to control the complex model to avoid overfitting by reducing the variance. It regularizes or shrinks the coefficient estimates towards zero. There are two main regularization techniques: Lasso Regression(L1) and Ridge Regression(L2). L1 regularization omits the coefficient which are not providing much impact on output. L2 will try to reduce the difference between coefficients. The Elastic Net is a combination of both Lasso and Ridge regularization.

1. **Algorithms used for Regularization**
2. **Lasso Regression(L1)**

L1 regularization omits the coefficient which are not providing much impact on output.

1. **Ridge Regression**

L2 will try to reduce the difference between coefficients.

1. The **Elastic Net** is a combination of both Lasso and Ridge regularization.
2. **Error term present in Linear Regression**

Error term in a regression equation represents the effect of the variables that were omitted from the equation. The error term is a random variable with a mean of zero and a constant variance. The meaning of this is that the variances of the independent variables are independent of the value of the variable.