MACHINE LEARNING

1.   A. Least Square Error

2.   A. Linear Regression is sensitive to outliers

3.   B.Negative

4.   A. Regression

5.   C. Low bias and high variance

6.   B. Predictive model

7. D. Regularization

8.   D.SMOTE

9. Sensitivity and Specificity

10. B. False

11.A. Construction bag of words from a email

12.A) We don't have to choose the learning rate.

   B) It becomes slow when number of features is very large

13.Regularization is a technique used to reduce the errors by fiiting the function appropriately on the given training set and avoid overfiiting.
   There are mainly 3 types of regularization techniques
   They are:
     1. L1 Regularization or Lasso regularization

     2. L2 Regularization or Ridge regularization

     3. Dropout

14. The most commnly used regularization techniques are:
    i. L1 regularization
    ii. L2 regularization
    iii. Drop out regularization
    iv. Early stopping and
    v. Data augmentation

15. A linear regressionl line has an equation of the form of
    y=a+bx+e
    where
    x=explanatory variable
    y=dependent variable
    b=slope of the line
    a=intercept
    e= error

    The term error is the difference between the actual value and the predicted
value.