**Worksheet Set\_1:-**

**MACHINE LEARNING ASSIGNMENT**

**Q1:- A) Least Square Error**

**Q2:- A) Linear regression is sensitive to outliers**

**Q3:- B) Negative**

**Q4:- D) None of these**

**Q5:- C) Low bias and high variance**

**Q6:- B) Predictive Model**

**Q7:- A) Cross validation**

**Q8:- A) Cross validation**

**Q9:- A) TPR and FPR**

**Q10:- B) False**

**Q11:- B) Apply PCA to project high dimension data**

**Q12:- A-B-C**

**Q13:- Explain the term regularization?**

**Ans:-** Regularization is a set of methods for reducing overfitting in machine learning models. Typically, regularization trades a marginal decrease in training accuracy for an increase in generalizability.

**Q14:- Which particular algorithms are used for regularization?**

**Ans**:- The commonly used regularization techniques are : Lasso Regularization – L1 Regularization. Ridge Regularization – L2 Regularization.

**Q15:- Explain the term error present in linear regression equation?**

**Ans:-** An error term appears in a statistical model, like a regression model, to indicate the uncertainty in the model. The error term is a residual variable that accounts for a lack of perfect goodness of fit.