Q1. Which of the following methods do we use to find the best fit line for data in Linear Regression?
Ans: A) Least Square Error

Q2. Which of the following statement is true about outliers in linear regression?
Ans: A) Linear regression is sensitive to

Q3. A line falls from left to right if a slope is _____?
Ans: Negative

Q4. Which of the following will have symmetric relation between dependent variable and independent
variable?
Ans: B) Correlation

Q5. Which of the following is the reason for over fitting condition?
Ans: C) Low bias and high variance

Q6. If output involves label, then that model is called as:
Ans: B) Predictive modal

Q7. Lasso and Ridge regression techniques belong to _____?
Ans: D) Regularization

Q8. To overcome with imbalance dataset which technique can be used?
Ans: D) SMOTE

Q.9 The AUC Receiver Operator Characteristic (AUCROC) curve is an evaluation metric for binary
classification problems. It uses _____ to make graph?
Ans: A) TPR and FPR

Q10. In AUC Receiver Operator Characteristic (AUCROC) curve for the better model area under the
curve should be less.
Ans: b) False

Q11. Pick the feature extraction from below:
Ans: B) Apply PCA to project high dimensional data

Q12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear
Regression?
Ans: A) We don’t have to choose the learning rate.
B) It becomes slow when number of features is very large.
C) We need to iterate.

Q13. Explain the term regularization
Ans: Regularization: It is a process to avoid overfitted situation, where we used few models.

1. Lasso Regression Model (L1 Form): It is used in avoid overfitting, it will compare all features with the label if it found any features has no relation with lable or no impact on label with that feature, then it will delete that feature from dataset.

2. Ridge Regression Model (l2 form): It is used in avoid overfitting, it is same as Lasso Model but it will not ignore or delete that feature. it will give 0 importance but it will keep that feature in dataset.

Q14. Which particular algorithms are used for regularization.
Ans: Lasso Regression (L1) & Ridge Regression(L2)

Q15. Explain the term error present in linear regression equation
Ans: The difference between actual value and predicted value is called error or residual in linear regression equation.