Data Ingestion: 12 marks  
1. Read the dataset. Do the descriptive statistics and do null value condition check. Write an inference on it. (5 Marks)  
2. Perform Univariate and Bivariate Analysis. Do exploratory data analysis. Check for Outliers. (7 Marks)

Data Preparation: 5 marks  
1. Encode the data (having string values) for Modelling. Is Scaling necessary here or not? Data Split: Split the data into train and test (70:30). (5 Marks)

Modelling: 26 marks  
1. Apply Logistic Regression and LDA (linear discriminant analysis). (5 marks)  
2. Apply KNN Model, Naïve Bayes Model and support vector machine (SVM) model. Interpret the results. (7 marks)  
3. Model Tuning, Bagging (Random Forest should be applied for Bagging) and Boosting. (7 marks)  
4. Performance Metrics: Check the performance of Predictions on Train and Test sets using Accuracy, Confusion Matrix, Plot ROC curve and get ROC\_AUC score for each model. Final Model: Compare the models and write inference which model is best/optimized. (7 marks)