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| **Sr No.** | **Question** | **Marks** |
| 1. | Explain the concept of Gini Impurity. | 2 |
| 2. | What is the difference betwen classification and regression? | 2 |
| 3. | In the decision tree algorithm, on what basis are nodes split? | 2 |
| 4. | Define Minowski distance. | 2 |
| 5. | What are the various distance measures used in KNN? | 3 |
| 6. | What are the advantages of using a Naive Bayes classifier as opposed to other methods? | 3 |
| 7. | What are the methods based on which nodes are split in a decision tree? How do they differ? | 3 |
| 8. | How does the value of K affect the overall fit of the model in KNN algorithm? | 3 |
| 9. | What is CRISP\_DM? Explain how the process works. | 3 |
| 10. | Use the glass dataset that is provided in order to do the following:  The classification variable here is the Type column.   1. Use the KNN algorithm to classify the type of glass . 2. Use the same data in order to fit a naive bayes classifier. 3. Compare the relative performance of both models and comment which is a better approach for this dataset. | 7 |