**[Que-50.32] - Explain the concept of feature importance in random forests.**

### **Feature Importance in Random Forests**

Feature importance in random forests refers to the measure of the impact of each feature on the prediction accuracy of the model. It is typically calculated by:

1. **Mean Decrease Impurity (MDI)**: Measures the total decrease in node impurity (e.g., Gini impurity) brought by a feature across all trees in the forest.
2. **Mean Decrease Accuracy (MDA)**: Assesses the decrease in model accuracy when the values of a feature are permuted, thus breaking any relationship between the feature and the true outcome.