

### UNIT-III

S.No	Questions	BT	CO	PO
<b>Part – A (Short Answer Questions)</b>				
1	What is Bagging?	L1	CO3	PO1
2	Write three main steps of the Genetic algorithm	L1	CO3	PO1
3	What is Boosting?	L1	CO3	PO1
4	What is the Genetic algorithm	L1	CO3	PO1
5	What is Decision Tree ?	L1	CO3	PO1
6	What is the objective function of k-means?	L1	CO3	PO1
7	What is k-means algorithm in unsupervised learning?	L1	CO3	PO1
8	What is the difference between classification and regression trees?	L1	CO3	PO1
9	What is the random forest algorithm?	L1	CO3	PO1
10	What is entropy in a decision tree?	L1	CO3	PO1
11	Write applications of the CART Algorithm	L1	CO3	PO1
12	What is the Gini Impurity	L1	CO3	PO1

S.No	Questions	BT	CO	PO
<b>Part – B (Long Answer Questions)</b>				
1	Explain about K-Nearest Neighbor algorithm	L2	CO3	PO1
2	Explain the Decision Tree algorithm. What are its advantages and disadvantages	L2	CO3	PO1
3	Explain in detail about the Genetic algorithm with an example	L2	CO3	PO2
4	Explain Gaussian mixture models	L3	CO3	PO2
5	Explain the Nearest Neighbour Methods	L3	CO3	PO1
6	Write ID3 algorithm	L3	CO3	PO1
7	Describe different ways to combine Classifiers	L2	CO3	PO2
8	Explain the types of Ensemble Learning	L3	CO3	PO2
9	Write AdaBoost algorithm	L3	CO3	PO2