Neural Network

1. Construct and explain Artificial Neural network structure.
2. Determine activation function and list few activations function with description.
3. Explain application of ANN and list the challenges of ANN. b)list Advantages and disadvantages of ANN.
4. Analyze the XOR is not linearly separable? Justify how it can be solved.
5. Summarize and Explain various types of artificial neural network.
6. Why XOR problem could not be solved by simple perceptron?
7. 6.Explain about the Perceptron training algorithms

Clustering

1. Explain the concepts of clustering approaches. How it differ from classification.
2. List the applications of clustering and identify advantages and disadvantages of clustering algorithm.
3. Explain about Hierarchical clustering algorithm.
4. What is k in k-means algorithm? How it is selected?

Support Vector Machine (SVM)

1. Describe Support Vector Machine. How the vector developed in the training pattern.
2. Discuss SVM for XOR problems.
5. What is the role of kernels? Classify the different type of Kernel.
6. List the advantages of SVM and how optimal Hyperplane differ from Hyper plane.
7. Explain Soft margin support vector machine.