



**Module-3**

- 5 a. Explain appropriate problems for Neural Network Learning with its characteristics. (10 Marks)  
b. Explain the single perceptron with its learning algorithm. (06 Marks)

OR

- 6 a. Explain Back Propagation algorithm. (10 Marks)  
b. Explain the remarks of Back propagation algorithm. (06 Marks)

**Module-4**

- 7 a. Explain Naïve Bayes classifier. (10 Marks)  
b. Explain Bayesian Belief Networks. (06 Marks)

OR

- 8 a. Explain EM algorithm. (08 Marks)  
b. Explain the derivation of K-means algorithm. (08 Marks)

**Module-5**

- 9 a. Explain K-nearest neighbor learning algorithm with example. (10 Marks)  
b. Explain case based reasoning with example. (06 Marks)

OR

- 10 Write short note on:  
a. Q learning  
b. Radial basis function  
c. Locally weighted regression  
d. Sampling theory. (16 Marks)

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