Unit-I Important Questions

Two Marks:

Q.No	Questions	CO
1	List the applications of machine learning?	CO1
2	Define Machine Learning?	CO1
3.	Discuss the various components of learning?	CO1
4.	Differentiate Supervised learning and Unsupervised Learning	CO1
5.	Define Linear Model	CO1
6.	Differentiate Linear SVM and Non-Linear SVM	CO1
7.	Explain the types of Logistic Regression	CO1
8.	Define Reinforcement Learning	CO1
9.	Differentiate Forward propagation and Back propagation	CO1
10.	Describe the process of iterative learning?	CO1
11	When to use categorical cross-entropy and sparse categorical cross-entropy?	CO1
12	Explain Universal Approximation Theorem	CO1
13	Discuss the need for training a neural network?	CO1

13 MARKS:

Q.No	Questions	CO
1	Explain in detail about Support Vector Machines and its types. (13)	
1.	Discuss the multilayer perceptron model with its advantages and limitations (6)	**CO1**
2.	Explain in detail about perceptron (13)	**CO1**
3.	Explain Logistic regression in detail with its types (7)	**CO1**
4.	Discuss the need of gradient descent and also explain stochastic gradient descent algorithm in detail?	**CO1**
5.	Explain Backpropagation in detail?	**CO1**
6	Explain the need of minimizing the loss functions and the methods used to calculate the loss functions	**CO1**
7.	Describe the computations involved in shallow network	**CO1**