Deep Learning worksheet – 1

1.Ans) B) Neural Networks

2.Ans) D) None of the above

3.Ans) C) i – v – iv – iii – ii

4.Ans) A) Recurrent Neural Network

5.Ans) A) input pattern keeps on changing

6.Ans) C) dynamic inputs & categorization can’t be handled

7.Ans) B) Statement 2 is true while statement 1 is false

8.Ans) A) Recurrent Neural network

9.Ans) A) Learning Rate is low, B) Regularisation parameter is high, D) Stuck at local minima

10.Ans) B) Rectified Linear Unit, D) Sigmoid Function

11.Ans) Deep learning is part of a broader family of machine learning methods based on artificial neural networks with representation learning. Learning can be supervised, semi-supervised or unsupervised

12.Ans) Reinforcement learning is all about making decisions sequentially. In simple words we can say that the output depends on the state of the current input and the next input depends on the output of the previous input

13.Ans) The differences between the two Machine learning uses algorithms to parse data, learn from that data, and make informed decisions based on what it has learned. Deep learning structures algorithms in layers to create an "artificial neural network” that can learn and make intelligent decisions on its own

14.Ans) In the context of neural networks, a perceptron is an artificial neuron using the Heaviside step function as the activation function. The perceptron algorithm is also termed the single-layer perceptron, to distinguish it from a multilayer perceptron, which is a misnomer for a more complicated neural network

15.Ans) Artificial intelligence is a technology which enables a machine to simulate human behavior, The goal of AI is to make a smart computer system like humans to solve complex problems, Machine learning and deep learning are the two main subsets of AI.

Machine learning is a subset of AI which allows a machine to automatically learn from past data without programming explicitly, The goal of ML is to allow machines to learn from data so that they can give accurate output.