Module-5

1) What is the basic building block of a neural network?

2) Explain Unit with a neat block diagram

3) Elaborate on how a unit can be considered as a basic building of a neural network.

4) Illustrate neural network in terms of vector form.

5) Illustrate evaluating the output of the Neural Network

6) Discuss training of a neural network

7) Describe different types of loss functions

8) Discuss the different activation functions.

9) Write the equations of convolution operation of 1-D and 2-D data.

10) Justify the usage of pooling operation in Convolution neural networks

11) Distinguish between Convolution and fully connected layers

12) Illustrate Convolution-Detector-Pooling Building Block

13) Elaborate on complete convolution neural network architecture

14) Write different types of convolution variants

15) Elaborate on the intuition behind the CNN's

16) Illustrate RNN basics for recurrence using previous hidden state

17) Illustrate RNN basics for recurrence using previous output

18) Elaborate on Training RNNs Using previous hidden state

19) Elaborate on Training RNNs Using previous output

20) Explain Training RNNs from a single output for the entire input sequence

21) Illustrate the working of Bidirectional RNN's

22) Training RNNs suffers from the challenges of vanishing and explosion of gradients. Justify

23) Reason out the usage of gradient clipping

24) Elaborate on LSTM RNN's

25) Explain GAN with a block diagram

26) Write the applications of NLP