UNIT – III

1. Explain unfolding computational graphs in detail
2. Draw an RNN architecture for summarizing a sequence and produce a fixed- size representation
3. Describe how an RNN could respond to a directed graphical model over a sequence of random

variables y (t) with no inputs x.

1. Discuss the challenges of long term dependencies. How to avoid them?
2. Discuss about LSTM architecture in detail.
3. How recursive neural networks represent another generalization of recurrent network with a

different kind of computational graph.

UNIT – IV

1. What si Visual attention ?Discuss about recurrent models of Visual attention.
2. Discuss the application of the visual attention approach for image captioning
3. How external memory is useful for neural networks? Explain the working of Neural Turing machine with a neat diagram.
4. What is GAN? Explain the process of generating image data with GAN
5. Discuss the limitations of Neural Networks
6. Briefly explain the following: Vector quantization, Kohonen Self-Organizing Map