COLLEGE OF ENGINEERING TRIVANDRUM

DEPARTMENT OF COMPUTER APPLICATIONS

Third Semester M.C.A Degree

First Series Examination Jan-2022

20MCA283: DEEP LEARNING

Time: 1 hr **Max. Marks: 20**

PART-A

(*Answer All Questions. Each question carries 2.5 marks*)

1. Implement AND function using McCulloch Pitts Neuron.
2. Compare single-layer perceptron and multi-layer perceptron.
3. What is underfitting in a neural network?
4. Explain feed-forward neural network.

(Total: 4*2.5= 10 marks)

PART-B

(*Each question carries 5 marks*)

5. a) Explain the Perceptron model.

   b) Implement OR function using perceptron model.

OR

6. Explain different types of activation functions.

7. How overfitting problems can be reduced in deep learning?

OR

8. Explain the role of batch normalization in training a neural network.

(Total: 2*5= 10 marks)