



QP CODE: 25024884



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025

Fourth Semester

M Sc Computer Science (Data Analytics)

ELECTIVE - CA870402 - DEEP LEARNING

2020 ADMISSION ONWARDS

201FC0FD

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

Answer any **eight** questions.

Weight 1 each.

1. Draw a neuron for solving fast-food problem.
2. Define Sigmoid neuron.
3. Define sessions in Tensorflow.
4. Define Tensorboard.
5. Define CNN.
6. What do you mean by feature selection?
7. State the use of NTM.
8. Write the applications of RNN.
9. Differentiate Reinforcement learning and Supervised Learning.
10. Define Q-Table.

(8×1=8 weightage)

Part B (Short Essay/Problems)

Answer any **six** questions.

Weight 2 each.

11. Define Neural Network with a neat diagram.
12. With a neat diagram explain the working of a feed forward network.
13. Define the terms (i) variable (ii) Constant
14. Why pooling is used in CNN? Explain.
15. Discuss the use of pooling layer in CNN.





16. Define RNN. Explain the advantage of RNN over ANN.
17. Explain the structure of LSTM with a neat diagram.
18. Explain MDP with an example.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Define neuron and its types in detail.
20. Explain convolutional neural network and its application in real world.
21. Define RNN. Why memory cells are important. Discuss.
22. Write a note about the importance Reinforcement learning and explain its application areas.

(2×5=10 weightage)

