



QP CODE: 26019617



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc Computer Science (Data Analytics)

ELECTIVE - CA870402 - DEEP LEARNING

2020 Admission Onwards

C9DBC1ED

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are feed forward networks?
2. What is the use of softmax function.
3. How will you create a variable in Tensorflow?
4. Define sessions in Tensorflow.
5. What is feature extraction?
6. What is the use of Filter in CNN?
7. What is an output gate in LSTM?
8. What is a memory augmented neural network?
9. Write the importance of Reinforcement Learning.
10. List out any 4 real applications of Reinforcement Learning.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Define the term activation function. Explain its types.
12. Define neurons and its types.





13. What are tensors in Tensorflow? Explain two methods for defining tensors.
14. Explain the working of CNN with an example.
15. Briefly explain Convolutional Layer and its use in CNN.
16. Write a note on word2vec.
17. Write a short note on NTM.
18. Write a short note about Q-learning.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. What is neural network? Explain its importance.
20. Explain convolutional neural network and its application in real world.
21. Explain the working of memory cells in RNN in detail.
22. Discuss (i) MDP in Reinforcement Learning (ii) Q-Learning in Reinforcement Learning

(2×5=10 weightage)

