



QP CODE: 24018590



24018590

Reg No :

Name :

M Sc DEGREE (CSS) EXAMINATION, APRIL 2024

Fourth Semester

M Sc COMPUTER SCIENCE (DATA ANALYTICS)

Elective - CA870402 - DEEP LEARNING

2020 ADMISSION ONWARDS

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Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. How NN related to machine learning?
2. Define the term bias.
3. Create a two dimensional tensor with values[1,2,3] and [4,5,6].
4. How will you create placeholders?
5. Define feature map.
6. List any 4 application areas of CNN.
7. What are Recurrent Neural Networks?
8. Why word2vec is used in RNN?
9. Write the importaence 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. Discuss the limitations of traditional computing.
12. With a neat diagram explain the working of a feed forward network.





13. Draw the computational graph for function $f(x,y)=x^2y+y+2$.
14. Discuss different supervised feature selection methods used in CNN.
15. Explain the need of Fully connected layer.
16. Explain sequence analysis.
17. Briefly explain Memory augmented Neural network.
18. Explain Q-learning process 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 the working of Convolutional Neural Network with necessary diagram.
21. Explain the working of LSTM with a neat diagram.
22. Define Reinforcement learning . Explain the MDP model with an example.

(2×5=10 weightage)

