Code No.: AI702PC

R20 H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Supply) - April - 2024 DEEP LEARNING

(CSM)

[Time: 3 Hours] [Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a) b) c) d) e) f) g) h) i)	Differentiate Machine Learning and Deep learning. Explain elements of Deep Learning? What is Kohenen Self-Organizing Feature Map? Define Fixed Weights Competitive Nets in deep learning. List out various Back Propagation Networks. What are various Activation Functions? Define Parameter Norm Penalty. Differentiate Boosting and Bagging. What are various parameter initialization strategies? Define Optimization Process in deep learning.	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
2.	Compare and Contrast Single Layered Model and Multi Layered Perceptron Model. OR	(50 Marks) [10M]
3.	Describe the Characteristics of Continuous Hopfield Memory and discuss how it could be used to solve Traveling salesman Problem.	an [10M]
4.	Define Maxnet? Explain the role of Maxnet in deep learning model with example. OR	[10M]
5.	Explain various Special Networks in deep learning.	[10M]
6.	Give an example of learning XOR function to explain a fully functioning Fe Forward Network.	ed [10M]
7.	OR Explain in detail about the concept of Condient Recod Learning	5403.53
7.	Explain in detail about the concept of Gradient Based Learning.	[10M]
8.	What is Regularization? How Regularization helps in reducing Overfitting?	[10M]
9.	What is Early Stopping Meta-Algorithm? How is will help to find the best amount time to train the deep learning model.	of [10M]
10.	Discuss the application of Second-Order Methods to the training of deep networks.	[10M]
11.	OR Explain various Optimization Strategies adopted in deep learning.	[10M]