Code No.: CS8251PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

II-M.TECH-I-Semester End Examinations (Regular) - Feb- 2022 DEEP LEARNING (PE-V)

(CSE)

[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 (C	20 Marks)
1. a) b) c) d) e) f)	What is the significance of hidden units in Neural Network? Write short notes on Feed Forward Networks. What is semi-supervised learning? What is the dropout in deep learning? List out the challenges in Neural Network optimization. How learning differs from pure optimization?	[2M] [2M] [2M] [2M] [2M] [2M]
īg) h) i) j)	What is pooling? what is convolution operation in CNN? Write short notes on N-Gram dataset. Write short notes large scale deep learning model.	[2M] [2M] [2M]
		(50 Marks)
	PART-B	[10M]
2.	Illustrate gradient-based learning with suitable example. OR	/
3.	Explain feed -forward back propagation algorithm.	[10M]
4.	Illustrate the multi task learning through an example.	[10M]
	OR	nts? [10M]
5.	What is dataset augmentation? Explain how it is useful to create new data point	
6	Explain adaptive learning rate methods in deep learning.	[10M]
O	OR	[10M]
7	 Explain in detail about the approximate second order methods. 	[TOM]
	to a neural networks with example	[10M]
8	. Illustrate the convolution neural networks with example. OR	51010
9	. Discuss about the efficient convolution algorithms.	[10M]
,		[10M]
10	Explain how deep learning is used in computer vision.	[]
		[10M]
11	Explain the role of deep learning in speech recognition.	