Reg. No. :										
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Question Paper Code: 95015	Ouestion	Paper	Code	:95013
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M.E. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

19PCS513–DEEP LEARNING TECHNIQUES

(Regulation 2019)

Duration: Three hours Ma			ximum: 100 Marks	
		Answer ALL Questions		
		PART - A (5 x 20 = 100 Marks)		
1.	(a)	Explain how regularization is applied in neural networks. Or	CO1-U	(20)
	(b)	Explain the challenges in neural network optimization.	CO1- U	(20)
2.	(a)	Explain recurrent neural network. Also differentiate with feed forward neural network. Or	CO1- U	(20)
	(b)	Write the differences between long term and temporal dependencies with suitable examples.	CO1- U	(20)
3.	(a)	Why inference and approximate inference is used in deep learning? Explain the various functionalities of it. Or	CO3- U	(20)
	(b)	What is Linear Factor models and Auto encoders? Discuss different kinds of auto encoders.	CO3- U	(20)
4.	(a)	Explain deep belief network and its types with examples. Or	CO4- U	(20)
	(b)	Describe the operations of greedy algorithm in deep Boltzman machine.	CO4- U	(20)
5.	(a)	What do you mean by object recognition and computer vision? Illustrate any three applications Or	CO5- App	(20)
	(b)	Explain information retrieval methodologies in detail and Discuss how it will help for effective information analysis in deep learning.	CO5- App	(20)

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