Manarat International University (MIU)

Department of Computer Science and Engineering

Neural Network and Fuzzy Systems (CSE-433)

Class Test-1 (Fall 2019)

	ID	Points: 15	Time: 20 minutes		
1	Explain Contrastive Divergence Algorithm. How do you train a Restricted Boltzmann Machi			10	
	using CD algorithm given				
	$\nabla_{\mathbf{w}} E(\mathbf{x}, \mathbf{h}) = -\mathbf{h} \mathbf{x}^T$				

3 Larochelle et al. found the following results while visualizing the filters of a Restricted Boltzmann Machine on MNIST Dataset. Explain the following result.

