✅ Congratulations! You passed!

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1. What is the main application of RBM?   **1 / 1 point**

○ Collaborative filtering

○ Feature extraction

○ Data dimensionality reduction

◉ All of the above

✓ **Correct**

2. How many layers does an RBM (Restricted Boltzmann Machine) have?   **1 / 1 point**

○ 3

○ 4

◉ 2

○ Infinte

○ All of the above

✓ **Correct**

3. How does an RBM compare to a PCA?   **1 / 1 point**

◉ Both can regenerate input data

○ PCA cannot generate original data

○ PCA is another type of Neural Network

○ RBM cannot reduce dimensionality

○ All of the above

⊘ **Correct**

4. Which statement is TRUE about RBM?   **1 / 1 point**

○ At the hidden layer's nodes, X is multiplied by a W (weight matrix) and added to h_bias.

○ Each node in the first layer has a bias.

○ The RBM reconstructs data by making several forward and backward passes between the visible and hidden layers.

○ It is a Boltzmann machine, but with no connections between nodes in the same layer.

◉ All of the above

⊘ **Correct**

5. Which statement is TRUE statement about an RBM?   **1 / 1 point**

○ The Positive phase of an RBM increases the probability of training data.

○ The Negative phase of an RBM decreases the probability of samples generated by the model.

○ Contrastive Divergence (CD) is used to approximate the negative phase of an RBM.

○ The objective function is to maximize the likelihood of our data being drawn from the reconstructed data distribution.

◉ All of the above

⊘ **Correct**