**422**

#1 True. They are updated using the error rate of the classifier which will be constant for all samples.

#2 False. Training two decision trees on the same data will give two copies of the same tree. That is not useful for an ensemble.

#3 We can train a perceptron multiple times either using bagging or by changing the order of the training data.

#4 False. Adaboost returns a weighted vote of all trained classifiers.

**622**

#1 True. If we take an old classifier and test it on the newly weighted data, the weights for the samples it got wrong will be very high so it will get a high error rate.

#2 Same as #3 on 422 Quiz

#3 Both. You can take one classifier (perceptron) and repeatedly train it and your ensemble will be different versions of it. Or you can train different classifiers (decision tree, perceptron, KNN, etc)