Assignment 10

1. When will we call the early stopping?
   a. Minimize training loss.
   b. Minimize validation loss.
   c. Minimize test loss.
   d. None of those.

2. What is the use of lambda parameters in batch normalization layer?
   a. Calculate mean and variances.
   b. Decay normalization.
   c. Regularization the activations.
   d. No lambda parameters is present.

3. Which of the one is not a procedure to prevent overfitting?
   a. Reduce features size.
   b. First derivative.
   c. Normalize training datasets.
   d. Increase training iterations.

4. A person named 10 has a variance in a hidden layer. Activation of the neuron for these batches is...
   a. Removed from the training.
   b. Discarded on current test.
   c. Discarded on the number of trainable parameters.
   d. None of these.

5. What is the number of lambda parameters required in a dropout layer?
   a. Zero.
   b. Depends on the dropout rate.
   c. Depends on the number of trainable parameters.
   d. None of these.

6. A four-layer neural network has no number of parameters. If we use a hidden layer with 50% drop rate, what is the number of parameters that would instead?
   a. 2,500
   b. 250
   c. 500
   d. 0

7. How can we prevent overfitting?
   a. Increase the number of data samples.
   b. Increase the number of neurons.
   c. Decrease the number of features.
   d. Increase the number of data samples.

8. How do we generally calculate area under curve during training?
   a. With backpropagation by accumulated weight.
   b. Area under curve based on test/loss.
   c. Accumulate area with each mini-batch during training.
   d. Area at the place.

9. Which one of the following regularization techniques should be used among the trained weights?
   a. L2 regularizer.
   b. L1 regularizer.
   c. Both L2, L1.
   d. None of the above.

10. Which one of the following is not an advantage of dropout?
    a. Regularize the model.
    b. Prevent overfitting.
    c. Training error.
    d. Reduce computational cost during testing.

11. Which one of the following can be used as a validation set?
    a. Training set.
    b. Test set.
    c. Validation set.
    d. None of the above.