With the inverted dropout technique, at test time:

- You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.
- You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training
- You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.
- You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep_prob factor in the calculations used in training

Correct

Question 8/10

✓ 1.00/1.00 points

Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)

- [ ] Increasing the regularization effect
- [x] Reducing the regularization effect
- [ ] Causing the neural network to end up with a higher training set error
- [x] Causing the neural network to end up with a lower training set error

TAP CARD FOR DETAILS

Question 9/10

✓ 1.00/1.00 points

Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)

- [ ] Exploding gradient
- [x] L2 regularization
- [ ] Xavier initialization
- [x] Data augmentation
- [ ] Vanishing gradient
- [ ] Gradient Checking

TAP CARD FOR DETAILS

Question 10/10

✓ 1.00/1.00 points

Why do we normalize the inputs x?

- It makes it easier to visualize the data
- It makes the parameter initialization faster
- Normalization is another word for regularization--It helps to reduce variance
- It makes the cost function faster to optimize

NEXT ITEM

Question 6/10

✓ 1.00/1.00 points

What happens when you increase the regularization hyperparameter lambda?

- (●) Weights are pushed toward becoming smaller (closer to 0)
- ( ) Weights are pushed toward becoming bigger (further from 0)
- ( ) Doubling lambda should roughly result in doubling the weights
- ( ) Gradient descent taking bigger steps with each iteration (proportional to lambda)

TAP CARD FOR DETAILS

Question 5/10

✓ 1.00/1.00 points

What is weight decay?

- Gradual corruption of the weights in the neural network if it is trained on noisy data.
- The process of gradually decreasing the learning rate during training.
- A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.
- A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.

TAP CARD FOR DETAILS

Question 4/10

✓ 1.00/1.00 points

You are working on an automated check-out kiosk for a supermarket, and are building a classifier for apples, bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%. Which of the following are promising things to try to improve your classifier? (Check all that apply.)

- [x] Increase the regularization parameter lambda
- [ ] Decrease the regularization parameter lambda
- [x] Get more training data

TAP CARD FOR DETAILS

Question 3/10

✓ 1.00/1.00 points

If your Neural Network model seems to have high bias, what of the following would be promising things to try? (Check all that apply.)

- [ ] Add regularization
- [ ] Get more test data
- [ ] Get more training data
- [x] Make the Neural Network deeper
- [x] Increase the number of units in each hidden layer

TAP CARD FOR DETAILS

Question 2/10

✓ 1.00/1.00 points

The dev and test set should:

- (•) Come from the same distribution
- ( ) Come from different distributions
- ( ) Be identical to each other (same (x,y) pairs)
- ( ) Have the same number of examples

TAP CARD FOR DETAILS

Question 1/10

✓ 1.00/1.00 points

If you have 10,000,000 examples, how would you split the train/dev/ test set?

- (•) 98% train . 1% dev . 1% test
- ( ) 33% train . 33% dev . 33% test
- ( ) 60% train . 20% dev . 20% test

TAP CARD FOR DETAILS