1. What is the main function of backpropagation when training a Neural Network? 1 / 1 point

- ○ Preprocess the input layer
- ◉ Make adjustments to the weights
- ○ Make adjustments to the loss function
- ○ Propagate the output on the output layer

✓ Correct
Correct! You can find more information on the lesson Introduction to Neural Networks part 3.

2. (True/False) The “vanishing gradient” problem can be solved using a different activation function. 1 / 1 point

- ◉ True
- ○ False

✓ Correct
Correct! You can find more information on the lesson Introduction to Neural Networks part 3.

3. (True/False) Every node in a neural network has an activation function. 1 / 1 point

- ◉ True
- ○ False

✓ Correct
Correct! You can find more information on the lesson Introduction to Neural Networks part 3.

4. These are all activation functions except: 1 / 1 point

- ○ Sigmoid
- ○ Hyperbolic tangent
- ◉ Leaky hyperbolic tangent
- ○ ReLu

✓ Correct
Correct! You can find more information on the lesson Other Activation Functions.

5. Deep Learning uses deep Neural Networks for all these uses, except 1 / 1 point

- ○ As an alternative to manual feature engineering
- ○ To uncover usually unobserved relationships in the data
- ◉ Cases in which explainability is the main objective

- ◯ As a classification and regression technique

✓ Correct
Correct! You can find more information in the lesson Regularization Techniques for Deep Learning.

6. These are all activation functions except: 1 / 1 point

- ◯ Regularization penalty in cost function
- ◯ Dropout
- ◯ Early stopping
- ◉ Pruning

✓ Correct
Correct! You can find more information in the lesson Regularization Techniques for Deep Learning.

7. (True/False) Optimizer approaches for Deep Learning Regularization use gradient descent: 1 / 1 point

- ◯ True
- ◉ False

✓ Correct
Correct! You can find more information in the lesson Regularization Techniques for Deep Learning.

8. Stochastic gradient descent is this type of batching method: 1 / 1 point

- ◉ online learning
- ◯ mini batch
- ◯ full batch
- ◯ stochastic batch

✓ Correct
Correct! You can find more information in the lesson Neural Networks Training Details

9. (True/False) The main purpose of data shuffling during the training of a Neural Network is to aid convergence and use the data in a different order each epoch. 1 / 1 point

- ◉ True
- ◯ False

✓ Correct
Correct! You can find more information in the lesson Neural Networks Training Details

10. This is a high-level library that is commonly used to train deep learning models and runs on either TensorFlow or Theano: 1 / 1 point

- ◯ PyTorch
- ◉ Keras
- ◯ Watson Studio
- ◯ Deep Learning

✓ Correct
Incorrect. Please review the Keras lesson.