

✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 100%

Week 3 Quiz

100%			
1.	If X is the standard notation for the input to an RNN, what are the standard notations for the outputs? Y	1/1 point	
	() H		
	Y(hat) and H H(hat) and Y		
	✓ Correct		
2.	What is a sequence to vector if an RNN has 30 cells numbered 0 to 29 The average Y(hat) for all 30 cells The Y(hat) for the last cell The total Y(hat) for all cells The Y(hat) for the first cell	1/1 point	
	✓ Correct		
3.	What does a Lambda layer in a neural network do? Pauses training without a callback There are no Lambda layers in a neural network Changes the shape of the input or output data Allows you to execute arbitrary code while training	1/1 point	
	✓ Correct		
4.	What does the axis parameter of tf.expand_dims do? Defines the dimension index at which you will expand the shape of the tensor Defines the dimension index to remove when you expand the tensor Defines if the tensor is X or Y Defines the axis around which to expand the dimensions	1/1 point	
	✓ Correct		

	○ Hubble loss	
	○ Hawking loss	
	Huber loss	
	○ Hyatt loss	
	✓ Correct	
6.	What's the primary difference between a simple RNN and an LSTM	1 / 1 point
	LSTMs have a single output, RNNs have multiple	
	○ In addition to the H output, RNNs have a cell state that runs across all cells	
	In addition to the H output, LSTMs have a cell state that runs across all cells	
	LSTMs have multiple outputs, RNNs have a single one	
	✓ Correct	
7.	If you want to clear out all temporary variables that tensorflow might have from previous sessions, what code do you run?	1 / 1 point
	tf.keras.clear_session	
	tf.cache.backend.clear_session()	
	tf.cache.clear_session()	
	tf.keras.backend.clear_session()	
	✓ Correct	
8.	What happens if you define a neural network with these two layers?	1/1 point
	tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)),	
	tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)),	
	tf.keras.layers.Dense(1),	
	O Your model will fail because you need return_sequences=True after each LSTM layer	
	O Your model will compile and run correctly	
	O Your model will fail because you have the same number of cells in each LSTM	
	Your model will fail because you need return_sequences=True after the first LSTM layer	
	✓ Correct	