1.	Identify the correct order of the gates that information flows through in an LSTM unit.	1/1 point			
	O Input gate, forget gate, output gate.				
	Forget gate, input gate, output gate.				
	Output gate, forget gate, input gate.				
	O Forget gate, output gate, input gate				
2.	Which are some applications of LSTMs?	1/1 point			
	✓ Image captioning				
	Speech recognition				
	Next character prediction				
	Chatbots				
	Music composition				

3. The tanh layer ensures the values in your network stay numerically stable, by squeezing all values between -1 and 1. This prevents any of the values from the current inputs from becoming so large that they make the other values insignificant.

1/1 point

3.	The tanh layer ensures the values in your network stay numerically stable, by squeezing all values between -1 and 1. This prevents any of the values from the current inputs from becoming so large that they make the other values insignificant.	1/1 point				
	<ul><li>False</li><li>True</li></ul>					
•	What to use of such its store is a ways of such its such as a military value?	1/1				
4.	What type of architecture is a named entity recognition using?	1/1 point				
	Many to many  One to many					
	One to many  Many to one					
	Correct Correct.					
5.	Extract the named entities from the following sentence:	1/1 point				
	Younes, a Moroccan artificial intelligence engineer, travelled to France for a conference.	The second second				
	O Younes, Moroccan, conference.					
	Younes, Moroccan, France.					
	O Younes, Moroccan, engineer.					
	O Younes, Moroccan engineer, France.					
6.	In a vectorized representation of your data, equal sequence length allows more efficient batch processing.	1/1 point				
A.	True.	-1-P*****				
	O False					
	WAR A STATE OF THE					

7.	. Why is it important to mask padded tokens when computing the loss?					
	We add the loss of the padded tokens independently.					
	Padded tokens are not part of the data and are just used to help us keep the same sequence length for more efficient batch processing. We should not include their loss.					
8.	In which of the following orders should we train an Named Entity Recognition with an LSTM?					
	0	1. Create a tensor for each input and its corresponding number				
		2. Put them in a batch => 64, 128, 256, 512				
		3. Run the output through a dense layer				
		4. Feed it into an LSTM unit				
		5. Predict using a log softmax over K classes				
	0	1. Create a tensor for each input and its corresponding number				
		2. Put them in a batch => 64, 128, 256, 512				
		3. Run the output through a dense layer				
		4. Predict using a log softmax over K classes				
		5. Feed it into an LSTM unit				
	•	1. Create a tensor for each input and its corresponding number				
		2. Put them in a batch => 64, 128, 256, 512				
		3. Feed it into an LSTM unit				
		4. Run the output through a dense layer				
		5. Predict using a log softmax over K classes				
	Correct.					
9.	LSTMS solve vanishing/exploding gradient problems when compared to basic RNNs.					
Э.	231	MS solve vanishing/exploding gradient problems when compared to basic kivivs.	1/1 point			
	()	True				
	0	False				

**⊘** Correct

		3. Run the output through a dense layer	
		4. Predict using a log softmax over K classes	
		5. Feed it into an LSTM unit	
	<b>③</b>	1. Create a tensor for each input and its corresponding number	
		2. Put them in a batch => 64, 128, 256, 512	
		3. Feed it into an LSTM unit	
		4. Run the output through a dense layer	
		5. Predict using a log softmax over K classes	
	<b>⊘</b>	Correct	
		Correct.	
9.	LSTM	S solve vanishing/exploding gradient problems when compared to basic RNNs.	1/1 point
	(A) 1	rue -	
	_		
	0 1	alse	
	⊘	Correct	
		Correct.	
10	Whic	h of the following are true about LSTMs and vanilla RNNs?	1/1 point
10.			1/1 point
	□ L	STMs are typically trained faster than vanilla RNNs.	
	<b>✓</b> L	STMs can better retain information from earlier parts of the sentence.	
	<b>⊘</b>	Correct	
	_ ı	STMs suffer from vanishing gradients, but RNNs don't.	
		STMs suffer from exploding gradients, but RNNs don't.	
	<b>V</b> A	A single LSTM cell is more complex than a single cell in vanilla RNN.	
	<b>⊘</b>	Correct Correct. LSTMs use input, output and forget gates to propagate information in a more sophisticated way than vanilla RNNs.	