Congratulations! You passed!

1 / 1 points	1.	If searching among a large number of hyperparameters, you should try values in a grid rather than random values, so that you can carry out the search more systematically and not rely on chance. True or False? True False Correct
1 / 1 points	2.	Every hyperparameter, if set poorly, can have a huge negative impact on training, and so all hyperparameters are about equally important to tune well. True or False? True False Correct Yes. We've seen in lecture that some hyperparameters, such as the learning rate, are more critical than others.
1 / 1 points	3.	During hyperparameter search, whether you try to babysit one model ("Panda" strategy) or train a lot of models in parallel ("Caviar") is largely determined by: Whether you use batch or mini-batch optimization The presence of local minima (and saddle points) in your neural network The amount of computational power you can access Correct The number of hyperparameters you have to tune

4. If you think β (hyperparameter for momentum) is between on 0.9 and 0.99, which of the following is the recommended way to sample a value for beta?

1 / 1 points 1 r = np.random.rand() 2 beta = r*0.09 + 0.9

1 r = np.random.rand() 2 beta = 1-10**(- r - 1)

Correct

1 r = np.random.rand() 2 beta = 1-10**(- r + 1)

1 r = np.random.rand() 2 beta = r*0.9 + 0.09

5. Finding good hyperparameter values is very time-consuming. So typically you should do it once at the start of the project, and try to find very good hyperparameters so that you don't ever have to revisit tuning them again. True or false?

1 / 1 points

True

False

Correct

6. In batch normalization as presented in the videos, if you apply it on the lth layer of your neural network, what are you normalizing?

1 / 1 points $W^[l]$

 $z^{[l]}$

Correct

 $b^{[l]}$

 $a^{[l]}$

7. In the normalization formula $z_{norm}^{(i)}=\frac{z^{(i)}-\mu}{\sqrt{\sigma^2+\varepsilon}}$, why do we use epsilon?

			Use the most recent mini-batch's value of μ and $\sigma^{\scriptscriptstyle \angle}$ to perform the needed normalizations.
			If you implemented Batch Norm on mini-batches of (say) 256 examples, then to evaluate on one test example, duplicate that example 256 times so that you're working with a mini-batch the same size as during training.
	10.		of these statements about deep learning programming frameworks are true? all that apply)
1 / 1 points			Even if a project is currently open source, good governance of the project helps ensure that the it remains open even in the long term, rather than become closed or modified to benefit only one company.
		Corre	ect
			A programming framework allows you to code up deep learning algorithms with typically fewer lines of code than a lower-level language such as Python.
		Corre	ect
			Deep learning programming frameworks require cloud-based machines to run.
		Un-se	elected is correct