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		
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?		1 point
	O True		
	False		
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		1 point
	The presence of local minima (and saddle points) in your neural network  The amount of computational power you can access		
	The number of hyperparameters you have to tune		
4.	f you think $\beta$ (hyperparameter for momentum) is between on 0.9 and 0.99, which of the following is the ecommended way to sample a value for beta?		
	1 r = np.random.rand()		
	2 beta = r*0.09 + 0.9		
	1 r = np.random.rand() 2 beta = 1-10**(- r - 1)		
	(A)   (A)   (B)   (B)		
	① 1 r = np.random.rand()		
	1 r = np.random.rand()		
	2 beta = r*0.9 + 0.09		
5.	<ul> <li>Finding good hyperparameter values is very time-consuming. So the project, and try to find very good hyperparameters so that you again. True or false?</li> <li>True</li> <li>False</li> </ul>		1 point
6.	. In batch normalization as presented in the videos, if you apply it of are you normalizing?	on the $l$ th layer of your neural network, what	1 point
	$\bigcirc b^{[l]}$		
	$igotimes z^{[l]}$ $igotimes W^{[l]}$		
	$\bigcirc a^{[l]}$		
7.	. In the normalization formula $z_{norm}^{(i)}=rac{z^{(i)}-\mu}{\sqrt{\sigma^2+arepsilon}}$ , why do we use ep	osilon?	1 point
	$\bigcirc$ In case $\mu$ is too small		
	O To speed up convergence		
	O To have a more accurate normalization		
	To avoid division by zero		
8.	. Which of the following statements about $\gamma$ and $eta$ in Batch Norm a $lacksquare$ There is one global value of $\gamma\in\Re$ and one global value of $eta$		1 point
	hidden units in that layer.		
	The optimal values are $\gamma=\sqrt{\sigma^2+\varepsilon}$ , and $\beta=\mu$ .  They can be learned using Adam, Gradient descent with mon	nentum, or RMSprop, not just with gradient	
	descent.		
	$\  \  \  \  \  \  \  \  \  \  \  \  \  $		
9.	After training a neural network with Batch Norm, at test time, to evaluate the neural network on a new example you should:		1 point
	O Skip the step where you normalize using $\mu$ and $\sigma^2$ since a single test example cannot be normalized.  O 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.		
	Use the most recent mini-batch's value of $\mu$ and $\sigma^2$ to perform the needed normalizations.  Perform the needed normalizations, use $\mu$ and $\sigma^2$ estimated using an exponentially weighted average across mini-batches seen during training.		
10	<ol> <li>Which of these statements about deep learning programming frag</li> </ol>	meworks are true? (Check all that apply)	1 point
10.	Which of these statements about deep learning programming frai Even if a project is currently open source, good governance o remains open even in the long term, rather than become clos company.	f the project helps ensure that the it	1 point
	Deep learning programming frameworks require cloud-based	d machines to run.	
	A programming framework allows you to code up deep learn	ing algorithms with typically fewer lines of	

code than a lower-level language such as Python.