1 point	 What is the "cache" used for in our implementation of forward propagation and backward propagation? We use it to pass variables computed during forward propagation to the corresponding backward propagation step. It contains useful values for backward propagation to compute derivatives. It is used to keep track of the hyperparameters that we are searching over, to speed up computation. We use it to pass variables computed during backward propagation to the corresponding forward propagation step. It contains useful values for forward propagation to compute activations. It is used to cache the intermediate values of the cost function during training. 	
1 point	Among the following, which ones are "hyperparameters"? (Check all that apply.)	
1 point	 Which of the following statements is true? The deeper layers of a neural network are typically computing more complex features of the input than the earlier layers. The earlier layers of a neural network are typically computing more complex features of the input than the deeper layers. 	
1 point	Vectorization allows you to compute forward propagation in an L -layer neural network without an explicit for-loop (or any other explicit iterative loop) over the layers l=1, 2,, True/False? True True False	
1 point	Assume we store the values for $n^{[l]}$ in an array called layers, as follows: layer_dims = $[n, 4,3,2,1]$. So layer 1 has four hidden units, layer 2 has 3 hidden units and so on. Which of the following for-loops will allow you to initialize the parameters for the model? 1 * for(i in range(1, len(layer_dims)/2)): 2	
1 point	Consider the following neural network. $ \begin{array}{c} \chi_1 \\ \chi_2 \\ \chi_3 \end{array} $ How many layers does this network have? The number of layers L is 4. The number of hidden layers is 3. The number of layers L is 3. The number of hidden layers is 3. The number of layers L is 4. The number of hidden layers is 4. The number of layers L is 5. The number of hidden layers is 4.	
1 point	During forward propagation, in the forward function for a layer l you need to know what is the activation function in a layer (Sigmoid, t tanh, ReLU, etc.). During backpropagation, the corresponding backward function also needs to know what is the activation function for layer l , since the gradient depends on it. True/False? True False	
1 point	There are certain functions with the following properties: (i) To compute the function using a shallow network circuit, you will need a large netwo (where we measure size by the number of logic gates in the network), but (ii) To compute using a deep network circuit, you need only an exponentially smaller network. True/False? True False	
1 point	Consider the following 2 hidden layer neural network: $x_1^{(i)} \qquad \qquad x_2^{(i)} \qquad \qquad x_2^{(i)} \qquad \qquad x_3^{(i)} \qquad \qquad x_4^{(i)} \qquad \qquad x_$	
1 point	Whereas the previous question used a specific network, in the general case what is the dimension of W^{[l]}, the weight matrix associated with layer l ? $W^{[l]} \text{ has shape } (n^{[l]}, n^{[l-1]})$ $W^{[l]} \text{ has shape } (n^{[l]}, n^{[l+1]})$ $W^{[l]} \text{ has shape } (n^{[l-1]}, n^{[l]})$ $W^{[l]} \text{ has shape } (n^{[l+1]}, n^{[l]})$	

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