Your grade: 100%

1.

2.

3.

4.

Your latest: 100% • Your highest: 100% • To pass you need at least 80%. We keep your highest score.

Next item →

Which of these steps are needed for building a model with the Functional API? (Select three from the list below)	1/1 point
 Explicitly define an input layer to the model. Define the input layer of the model using any Keras layer class (e.g., Flatten(), Dense(),) Define disconnected intermediate layers of the model. Connect each layer using python functional syntax. Define the model using the input and output layers. Define the model using only the output layer(s). 	
O 1,3,5	
2,4,5	
1,4,5	
0 1,4,6	
⊙ correct Correct!	
Is the following code correct for building a model with the Sequential API?	1/1 point
<pre>def build_model(): from tensorflow.keras.models import Model input_layer = tf.keras.Input(shape=(28, 28)) flatten_layer = tf.keras.layers.Flatten()(input_layer) first_dense = tf.keras.layers.Dense(128,</pre>	
O True	
False	
Only a single input layer can be defined for a functional model.	1/1 point
○ True	
False	
What are Branch Models ?	1/1point
A model architecture where you can split the model into different paths, and cannot merge them later.	
A model architecture with non-linear topology, shared layers, and even multiple inputs or outputs.	
A model architecture with a single recurring path.	
A model architecture with linear stack of layers.	
○ Correct Correct!	

	where different loss functions can be implemented for each output.	
	True	
	○ False	
	⊘ correct Correct!	
5.	A siamese network architecture has:	1/1 poin
	2 inputs, 1 output	1/1000
	1 input, 1 output 2 inputs, 2 outputs	
	① 1 input, 2 outputs	
	© Correct	
	Correct!	
	What is the output of each twin network inside a Siamese Network architecture?	1/1poin
	Binary value, 1 or 0	, , , ,
	An output vector	
	O Anumber	
	A softmax probability	
	○ Correct Correct!	
8.	What is the purpose of using a custom contrastive loss function for a siamese model?	1/1 poin
	O A custom loss function is required for using the RMSprop() optimizer.	
	As a custom built function, it provides better results and it is faster to run.	
	O A custom built function is required because it is not possible to use a built-in loss function with the Lambda layer.	
	(a) It is a custom built function that can calculate the loss on similarity comparison between two items.	