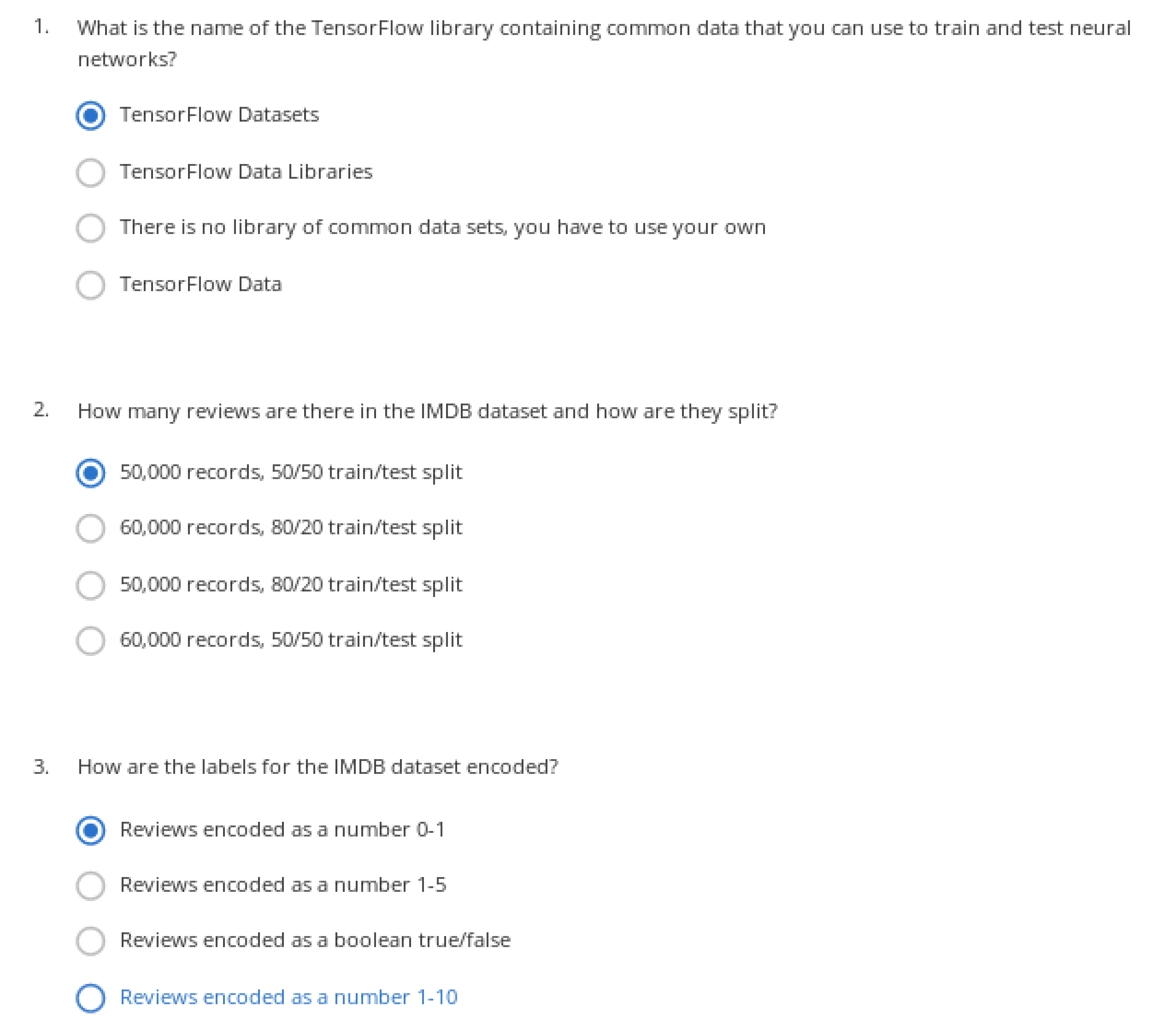


1. What is the name of the TensorFlow library containing common data that you can use to train and test neural networks?

   ● TensorFlow Datasets

   ○ TensorFlow Data Libraries

   ○ There is no library of common data sets, you have to use your own

   ○ TensorFlow Data

2. How many reviews are there in the IMDB dataset and how are they split?

   ● 50,000 records, 50/50 train/test split

   ○ 60,000 records, 80/20 train/test split

   ○ 50,000 records, 80/20 train/test split

   ○ 60,000 records, 50/50 train/test split

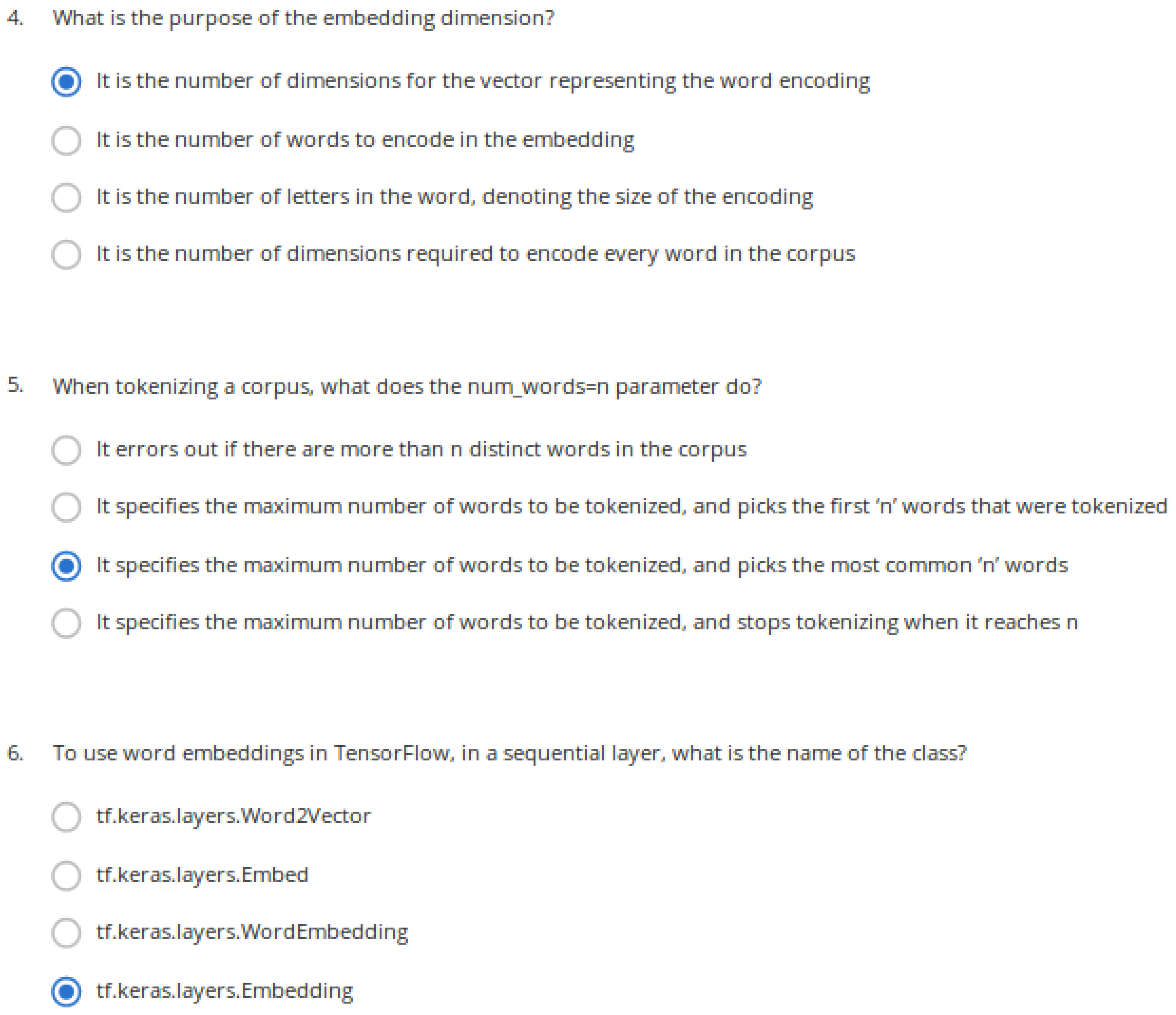
3. How are the labels for the IMDB dataset encoded?

   ● Reviews encoded as a number 0-1

   ○ Reviews encoded as a number 1-5

   ○ Reviews encoded as a boolean true/false

   ○ Reviews encoded as a number 1-10



4. What is the purpose of the embedding dimension?

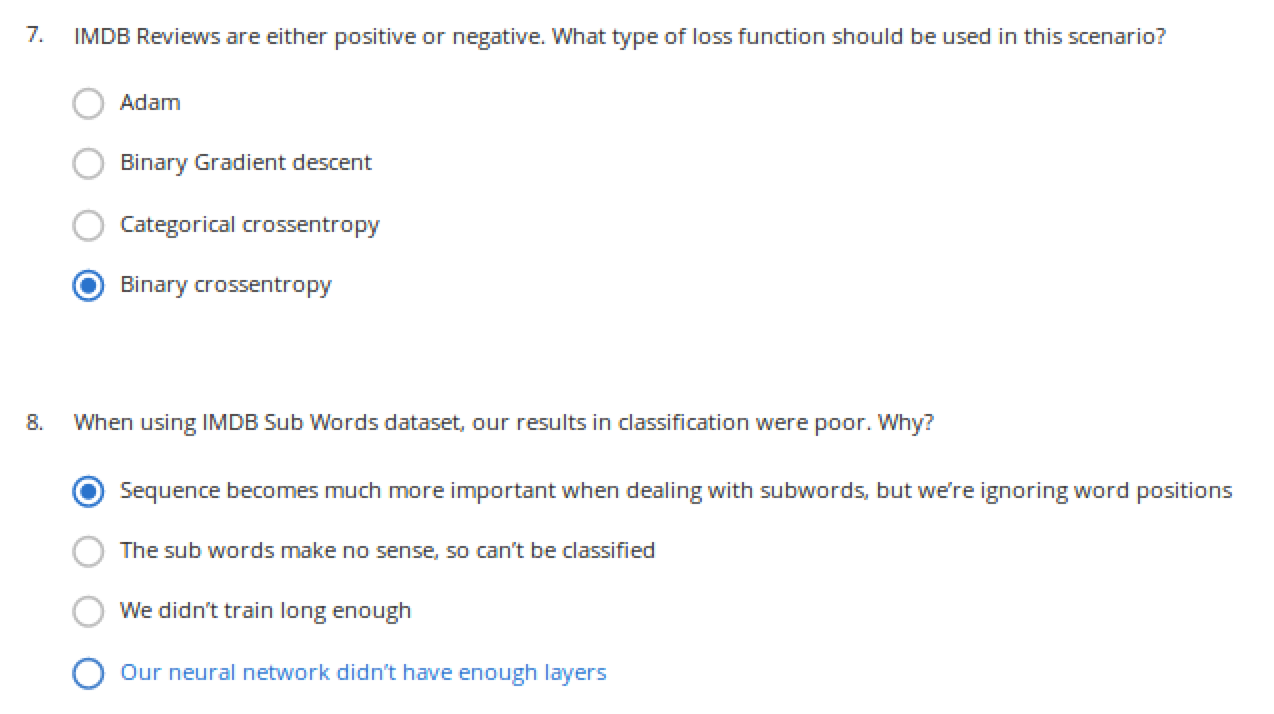
- ● It is the number of dimensions for the vector representing the word encoding
- ○ It is the number of words to encode in the embedding
- ○ It is the number of letters in the word, denoting the size of the encoding
- ○ It is the number of dimensions required to encode every word in the corpus

5. When tokenizing a corpus, what does the num_words=n parameter do?

- ○ It errors out if there are more than n distinct words in the corpus
- ○ It specifies the maximum number of words to be tokenized, and picks the first ‘n’ words that were tokenized
- ● It specifies the maximum number of words to be tokenized, and picks the most common ‘n’ words
- ○ It specifies the maximum number of words to be tokenized, and stops tokenizing when it reaches n

6. To use word embeddings in TensorFlow, in a sequential layer, what is the name of the class?

- ○ tf.keras.layers.Word2Vector
- ○ tf.keras.layers.Embed
- ○ tf.keras.layers.WordEmbedding
- ● tf.keras.layers.Embedding



7. IMDB Reviews are either positive or negative. What type of loss function should be used in this scenario?

○ Adam

○ Binary Gradient descent

○ Categorical crossentropy

● Binary crossentropy

8. When using IMDB Sub Words dataset, our results in classification were poor. Why?

● Sequence becomes much more important when dealing with subwords, but we're ignoring word positions

○ The sub words make no sense, so can't be classified

○ We didn't train long enough

○ Our neural network didn't have enough layers