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Grade	100.00 out of 100.00

1.00/1.00

How do RNNs handle variable-length sequences in NLP?

- By changing the network size
- By skipping them
- Through padding and truncation ✓
- They don't
- None of the given options

The correct answer is: Through padding and truncation

1.00/1.00

In music generation, what might an RNN be trained to predict?

- Next song genre
- None of the given options
- Next album cover
- Next note or chord ✓
- Next instrument

The correct answer is: Next note or chord

1.00/1.00

Why might one use GRU over LSTM?

- GRU is always more accurate
- None of the given options
- LSTM is outdated
- LSTM can't handle sequences
- GRU is simpler and sometimes faster ✓

The correct answer is: GRU is simpler and sometimes faster

1.00/1.00

Which problem arises when training RNNs on long sequences?



- ☐ Overfitting
- ☒ Vanishing or exploding gradients✓
- ☐ All of the given options
- ☐ Underfitting
- ☐ High bias

The correct answer is: Vanishing or exploding gradients

Question 5

1.00/1.00

Which of the following is NOT a typical use case for RNNs?

- ☐ Time series prediction
- ☒ Image classification✓
- ☐ Text generation
- ☐ Speech recognition
- ☐ None of the given options

The correct answer is: Image classification

Question 6

1.00/1.00

What is the primary difference between LSTM and GRU?

- ☐ LSTM is older, GRU is newer
- ☒ LSTM has input, forget, and output gates; GRU has reset and update gates✓
- ☐ LSTM is faster, GRU is slower
- ☐ LSTM has 3 gates, GRU has 2
- ☐ LSTM is for sequences, GRU is for images

The correct answers are: LSTM has 3 gates, GRU has 2, LSTM has input, forget, and output gates; GRU has reset and update gates

Question 7

1.00/1.00

Which RNN architecture uses a reset and update gate?

- ☐ None of the given options
- ☐ Simple RNN
- ☒ GRU✓
- ☐ Bidirectional RNN
- ☐ LSTM

The correct answer is: GRU

The correct answer is: GRU



Question 8

1.00/1.00

Which of the following is a common application of RNNs in NLP?

- ☐ Image classification
- ☐ Object detection
- ☐ Face recognition
- ☐ Image generation
- ☒ Text generation✓

The correct answer is: Text generation

Question 9

1.00/1.00

In sequence generation tasks, what is the primary input to an RNN at each time step?

- ☐ Previous error
- ☐ Current input
- ☒ Previous output✓
- ☐ Current weight
- ☐ None of the given options

The correct answer is: Previous output

Question 10

1.00/1.00

What is the main advantage of LSTM over basic RNN?

- ☐ More layers
- ☐ None of the given options
- ☐ Faster computation
- ☐ Lower computational cost
- ☒ Handling long-term dependencies✓

The correct answer is: Handling long-term dependencies