

[Module 3 - Recurrent Neural](#)[Course](#) > [Networks \(RNNs\)](#)> [Graded Review Questions](#) > Graded Review Questions

Graded Review Questions

Instructions for Graded Review Questions

1. Time allowed: **Unlimited**

- We encourage you to go back and review the materials to find the right answer
- Please remember that the Review Questions are worth 50% of your final mark.

2. Attempts per question:

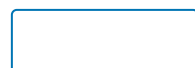
- One attempt - For True/False questions
- Two attempts - For any question other than True/False

3. Check your grades in the course at any time by clicking on the "Progress" tab

Review Question 1

1/1 point (graded)

What is a Recurrent Neural Network?

☒ A Neural Network that can recur to itself, and is proper for handling sequential data ✓☐ An infinite layered Neural Network which is proper for handling structured data☐ A special kind of Neural Network to predict weather☐ A markovian model to handle temporal data

You have used 1 of 2 attempts

Submit

✓ Correct (1/1 point)

Review Question 2

1/1 point (graded)

What is NOT TRUE about RNNs?

- ☐ RNNs are VERY suitable for sequential data.
- ☐ RNNs need to keep track of states, which is computationally expensive.
- ☒ RNNs are very robust against vanishing gradient problem. ✓

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

Review Question 3

1/1 point (graded)

What application(s) is(are) suitable for RNNs?

- ☐ Estimating temperatures from weather data
- ☐ Natural Language Processing
- ☐ Video context retriever
- ☐ Speech Recognition
- ☒ All of the above ✓

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

Review Question 4

1/1 point (graded)

Why are RNNs susceptible to issues with their gradients?

☐ Numerical computation of gradients can drive into instabilities

☐ Gradients can quickly drop and stabilize at near zero

☐ Propagation of errors due to the recurrent characteristic

☐ Gradients can grow exponentially

☒ All of the above ✓

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

Review Question 5

1/1 point (graded)

What is TRUE about LSTM gates?

☐ The Read Gate in LSTM, determine how much old information to forget

☐ The Write Gate in LSTM, reads data from the memory cell and sends that data back to the network.

☒ The Forget Gate, in LSTM maintains or deletes data from the information cell. ✓

☐ The Read Gate in LSTM, is responsible for writing data into the memory cell.

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

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