

Deep Learning Practice Test Questions and Answers

1. What is a bidirectional RNN?

- A) An RNN that processes images from multiple angles
- B) An RNN that processes the sequence in both forward and backward directions simultaneously
- C) An RNN with two hidden layers stacked vertically
- D) An RNN that uses two different loss functions

2. What is multi-head attention?

- A) Applying attention multiple times sequentially
- B) Running attention in parallel with different learned projections and concatenating results to capture diverse relationships
- C) Using a different attention function for each decoder layer
- D) Averaging attention patterns from multiple training runs

3. What is mixed precision training?

- A) Using different optimizers for different layers
- B) Training with 16-bit floats for computation while maintaining 32-bit master weights for numerical stability
- C) Mixing supervised and unsupervised objectives during training
- D) Using different learning rates for different parameter groups

4. What is the hidden state in an RNN?

- A) The final layer's output probabilities
- B) A vector summarizing information from previous time steps passed to the next step
- C) The loss value at each step
- D) The weight matrix connecting input to hidden layer

Answers: 1-B 2-B 3-B 4-B

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