## MCQ Assessment - Answers Included

Question 1: Which of the following neural network architectures has been widely used for
sequence modeling and transduction tasks?
a: Convolutional Neural Networks
b: Long Short-Term Memory
c: Radial Basis Function Networks
d: Hopfield Networks
Correct Answer: b
Question 2: What is the main limitation of recurrent models in terms of parallelization?
a: Memory constraints
b: Limited computational resources
c: Sequential nature of computation
d: Lack of attention mechanisms
Correct Answer: c
Question 3: Which researcher proposed replacing recurrent neural networks with
self-attention in the Transformer model?
a: Jakob
b: Ashish
c: Noam
d: Niki
Correct Answer: a

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Question 4: What is a key advantage of the Transformer model over recurrent models?
a: Faster training time
b: Higher translation quality
c: Increased parallelization
d: Improved accuracy on small datasets
Correct Answer: c
Question 5: Which attention mechanism is used in the Transformer model?
a: Additive attention
b: Dot-product attention
c: Multi-head attention
d: Convolutional attention
Correct Answer: c
Question 6: What is the benefit of using attention mechanisms in sequence models?
a: Modeling dependencies without regard to distance
b: Reducing the number of parameters
c: Improving computational efficiency
d: Enhancing interpretability
Correct Answer: a
Question 7: Which of the following researchers was not involved in the design and
implementation of the Transformer models?
a: Ashish
b: Illia

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c: Llion

d: Niki

Correct Answer: b

## Question 8: What is the main computational advantage of the Transformer model?

a: It eliminates sequential computation

b: It reduces memory consumption

c: It parallelizes computation across examples

d: It improves model performance on long sequences

Correct Answer: a

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