MCQ Assessment - Answers Included

Question 1: Which type of neural networks have been established as state-of-the-art for
sequence modeling?
a: Recurrent neural networks
b: Convolutional neural networks
c: Feedforward neural networks
d: Bayesian neural networks
Correct Answer: a
Question 2: Who proposed replacing RNNs with self-attention in the Transformer model?
a: Jakob
b: Ashish
c: Noam
d: Llion
Correct Answer: a
Question 3: Which of the following was not a feature proposed by Noam in the Transforme
model?
a: Scaled dot-product attention
b: Multi-head attention
c: Positional encoding
d: Recurrent computation
Correct Answer: d

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Question 4: Who designed and implemented the first Transformer models?
a: Llion
b: Ashish
c: Niki
d: Jakob
Correct Answer: b
Question 5: What is one of the inherent limitations of recurrent models?
a: Limited parallelization
b: High computational cost
c: Poor generalization ability
d: Inability to model long-range dependencies
Correct Answer: a
Question 6: How do attention mechanisms allow for more efficient modeling of dependencies
in sequence modeling?
a: By allowing dependencies to be modeled regardless of distance
b: By reducing the number of parameters required
c: By parallelizing the computation of hidden states
d: By introducing a hierarchical structure to the model
Correct Answer: a
Question 7: What is a key difference between the Transformer model and previous
attention-based models?

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a: The Transformer relies solely on attention mechanisms

b: The Transformer uses a different attention mechanism
c: The Transformer combines attention with recurrence
d: The Transformer does not use attention mechanisms
Correct Answer: a
Question 8: Which of the following was NOT a significant contributor to the development of
the Transformer model?
a: Jakob
b: Ashish
c: Noam
d: Lukasz
Correct Answer: d
Question 9: What type of GPUs were used to train the Transformer model?
a: P100
b: V100
c: RTX 3090
d: Titan Xp
Correct Answer: a
Question 10: What was the approximate training time for the Transformer model?
a: 6 hours
b: 12 hours
c: 24 hours
d: 48 hours

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Correct Answer: b

Question 11: What was one of the benefits of the factorization tricks and conditional

computation used in recent recurrent models?

a: Improved computational efficiency

b: Enhanced model performance

c: Reduced memory consumption

d: Faster convergence

Correct Answer: a

Question 12: Who was responsible for our initial codebase, efficient inference, and

visualizations in the Transformer model?

a: Llion

b: Ashish

c: Niki

d: Jakob

Correct Answer: a

Question 13: What did Lukasz and Aidan contribute to the Transformer model?

a: Designing and implementing tensor2tensor

b: Proposing the attention mechanism

c: Tuning and evaluating model variants

d: Visualizing the attention patterns

Correct Answer: a

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a: Jakob b: Ashish c: Niki d: David Correct Answer: d Question 15: What is one of the limitations of recurrent models that the Transformer model addresses? a: Sequential computation b: High parameter count c: Limited memory capacity d: Inability to learn long-term dependencies Correct Answer: a Question 16: What was one of the major advantages of the Transformer model? a: Significantly more parallelization b: Elimination of recurrent connections c: Improved generalization ability d: All of the above Correct Answer: d

Question 14: Who is not listed as a contributor to the Transformer model?