MCQ Assessment - For Students

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
Question 2: Who proposed replacing RNNs with self-attention in the Transformer model?
a: Jakob
b: Ashish
c: Noam
d: Llion
Question 3: Which of the following was not a feature proposed by Noam in the Transformer
model?
a: Scaled dot-product attention
b: Multi-head attention
c: Positional encoding
d: Recurrent computation
Question 4: Who designed and implemented the first Transformer models?
a: Llion
b: Ashish

d: Jakob
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
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
Question 7: What is a key difference between the Transformer model and previous
attention-based models?
a: The Transformer relies solely on attention mechanisms
b: The Transformer uses a different attention mechanism
c: The Transformer combines attention with recurrence

c: Niki

Question 8: Which of the following was NOT a significant contributor to the development of the Transformer model?

d: The Transformer does not use attention mechanisms

a: Jakob
b: Ashish
c: Noam
d: Lukasz
Question 9: What type of GPUs were used to train the Transformer model?
a: P100
b: V100
c: RTX 3090
d: Titan Xp
Question 10: What was the approximate training time for the Transformer model?
a: 6 hours
b: 12 hours
c: 24 hours
d: 48 hours
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
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
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
Question 14: Who is not listed as a contributor to the Transformer model?
a: Jakob
b: Ashish
c: Niki
d: David
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

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