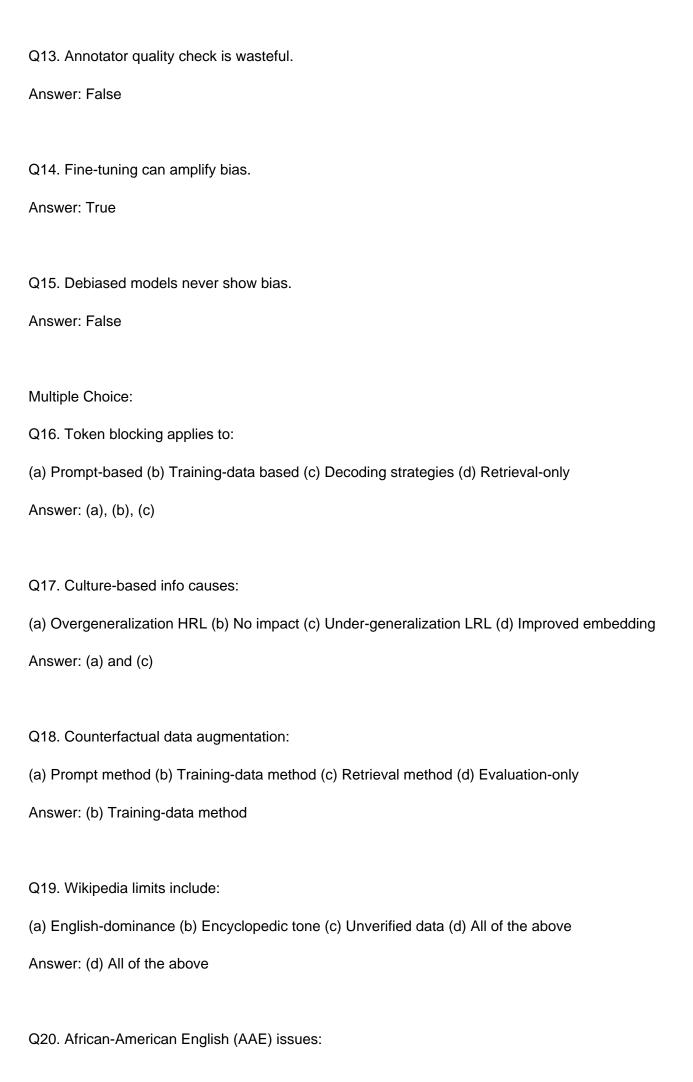
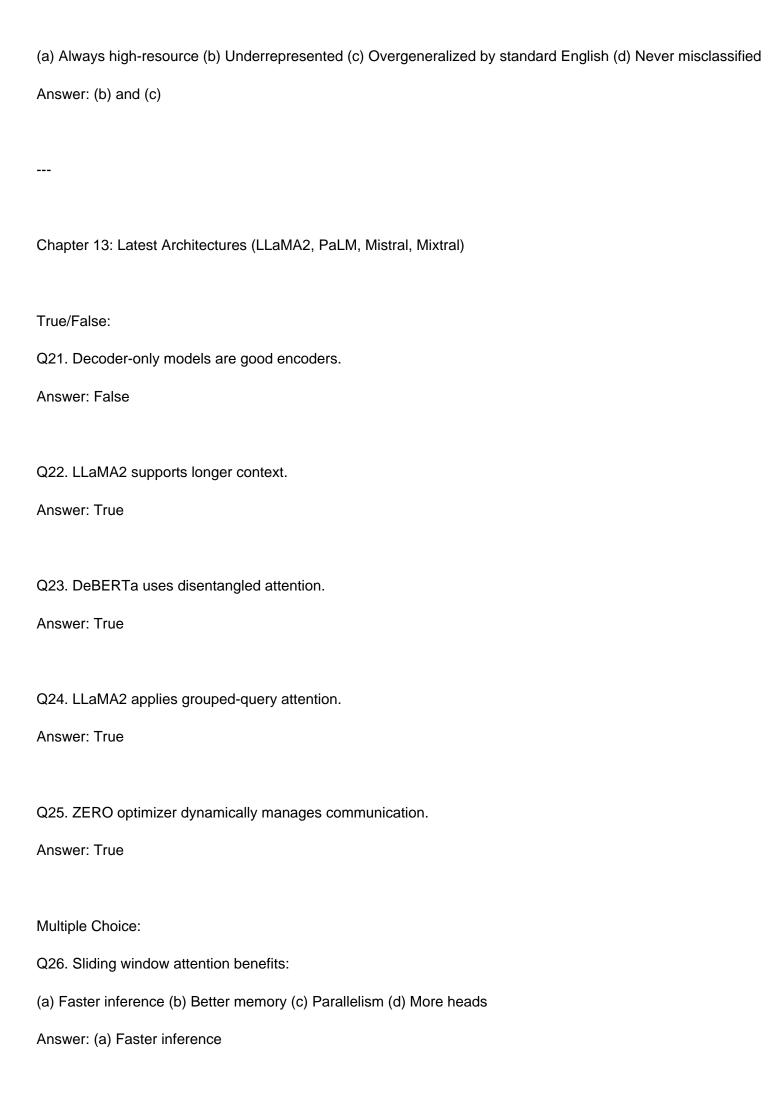
Questions and Answers - Chapters 11 to 13
Chapter 11: Multilingual and Multimodal LLMs
True/False:
Q1. Multilingual LLMs use same scripts.
Answer: False
Q2. Multimodal LLMs cannot process video. Answer: False
Q3. Cross-lingual transfer enables zero-shot tasks. Answer: True
Q4. Contrastive learning only used in multimodal models. Answer: False
Q5. Curse of multilinguality reduces model performance. Answer: True
Multiple Choice:
Q6. Not a pretraining task for multilingual LLMs:
(a) Translation (b) MLM (c) Image captioning (d) Cross-lingual retrieval
Answer: (c) Image captioning

Q7. Instruction tuning improves:
(a) Parameter freezing (b) Following task instructions (c) Output compression (d) Static indexing
Answer: (b) Following task instructions
Q8. Key challenge for multimodal LLMs:
(a) Aligning modalities (b) Reducing parameters (c) Increasing labels (d) Shorter outputs
Answer: (a) Aligning modalities
Q9. Parallel data means:
(a) Augmented prompts (b) Same text in different languages (c) Labeled dataset (d) JSON format
Answer: (b) Same text in different languages
Q10. Oversampling helps:
(a) High-resource language boost (b) Low-resource language balance (c) Increase hallucinations (d) Longer training
Answer: (b) Low-resource language balance

Chapter 12: Responsible AI and Bias Mitigation
True/False:
Q11. Inherent bias reflects social perspectives.
Answer: True
Q12. Responsible AI aims balanced demographic representation.
Answer: True





Q27. Mistral model uses:
(a) Multi-query (b) Random attention (c) Grouped-query attention (d) No attention
Answer: (c) Grouped-query attention
Q28. Models using ZERO:
(a) LLaMA2 (b) GPT-2 (c) Turing-NLG (d) OPT
Answer: (a) and (c)
Q29. Features of Mixtral:
(a) Sparse experts (b) Weight access (c) Private license (d) Dialogue from social media
Answer: (a), (b), and (d)
Q30. Characteristics of PaLM:
(a) Successor to LaMDA (b) Sparse expert model (c) Implements masked modeling (d) Fixed-length prompts
Answer: (a), (b), and (c)
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