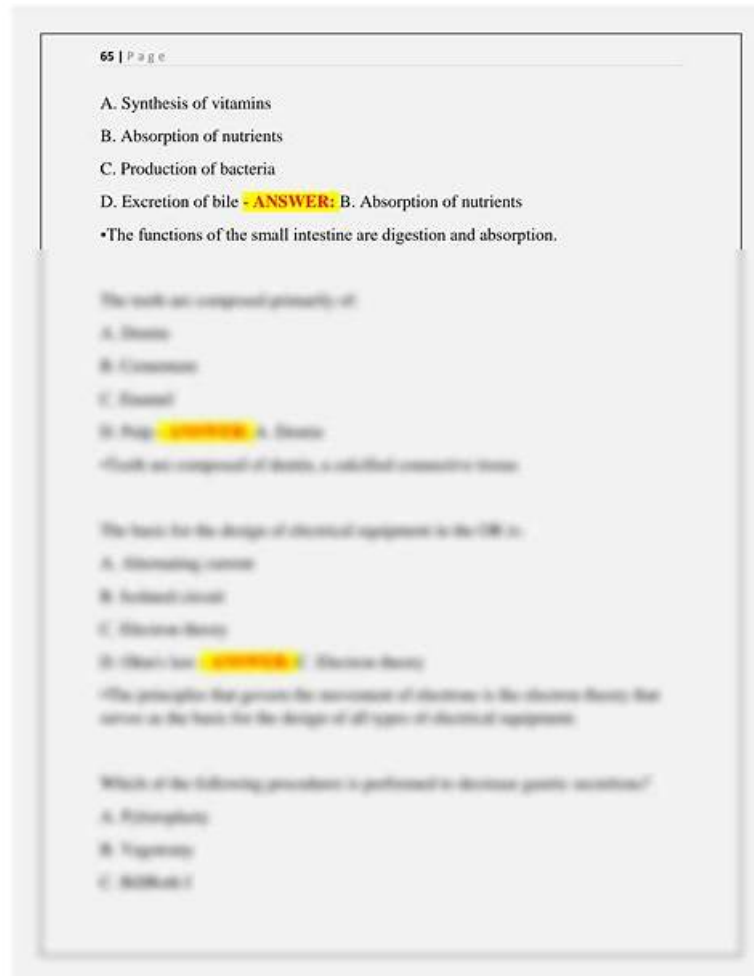


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NVIDIA Generative AI Multimodal Sample Questions (Q71-Q76):

NEW QUESTION # 71

In a multimodal sentiment analysis task involving text and images, you find that your model performs well on datasets with clear emotional cues in both modalities but struggles on datasets where the sentiment is subtle or requires nuanced understanding. Which of the following techniques would be MOST helpful in improving the model's performance on these more challenging datasets?

- A. Use a simpler model architecture.
- B. Increase the size of the training dataset.
- C. Reduce the learning rate.
- D. Randomly flip the images during training
- E. Implement a contrastive learning approach, training the model to distinguish between samples with similar and dissimilar sentiments.

Answer: E

Explanation:

Contrastive learning helps the model learn more robust and discriminative representations by explicitly training it to distinguish between samples with similar and dissimilar sentiments. This is particularly useful for nuanced sentiment analysis. Increasing the dataset size or reducing the learning rate may help to a lesser extent. A simpler model architecture would likely worsen the performance.

NEW QUESTION # 72

Which of the following statements accurately describes the role of attention mechanisms in Transformer-based multimodal models? (Select all that apply)

- A. Attention mechanisms enable the model to learn relationships between different modalities, such as images and text.
- B. Attention mechanisms are primarily used to reduce the computational cost of processing long sequences.
- C. Attention mechanisms prevent vanishing gradients during training of deep neural networks.
- D. Attention mechanisms allow the model to focus on the most relevant parts of the input sequence when generating the output.
- E. Attention mechanisms are used to compress the input sequence into a fixed-length vector representation.

Answer: A,D

Explanation:

Attention mechanisms enable the model to selectively focus on relevant parts of the input and learn relationships between modalities. They don't compress the input into a fixed-length vector, nor are they primarily for reducing computational cost or preventing vanishing gradients (although they can indirectly help with the latter).

NEW QUESTION # 73

You are deploying a multimodal generative AI model using Triton Inference Server. The model takes both image and text inputs. Which of the following approaches is most suitable for handling the preprocessing and postprocessing steps within Triton?

- A. Relying solely on Triton's automatic data type conversion capabilities without implementing any explicit preprocessing or postprocessing.
- B. Using Triton's ensemble models to chain preprocessing, the core generative model, and postprocessing models together.
- C. Writing custom C++ code to handle preprocessing and postprocessing within Triton's backend.
- D. Performing all preprocessing and postprocessing on the client-side before sending the data to Triton and after receiving the results.
- E. Implementing the preprocessing and postprocessing logic within the model itself as part of the neural network architecture.

Answer: B

Explanation:

Triton's ensemble models provide the most flexible and scalable way to handle preprocessing and postprocessing. By creating separate models for these steps and chaining them together with the core generative model, you can easily manage complex pipelines

and optimize each stage independently. Client-side processing (A) increases client burden. Embedding logic in the model (B) limits flexibility. Custom C++ code (D) is complex. Relying solely on automatic conversion (E) is often insufficient.

NEW QUESTION # 74

You are working with a large dataset of images to train a Generative AI model. You suspect that some images are corrupted or of poor quality, which could negatively impact training. Which of the following methods would be the MOST effective in identifying and removing these problematic images?

- A. Check for file corruption errors during image loading and remove those files.
- B. Calculate the average pixel intensity for each image and remove those with very low or very high average intensity.
- C. Manually inspect each image and remove those that appear to be corrupted or low quality.
- D. Compute the image sharpness (e.g., using Laplacian variance) and remove images with low sharpness values.
- E. Use a pre-trained image quality assessment model (e.g., BRISQUE, NIQE) to score each image and remove those with low scores.

Answer: A,D,E

Explanation:

Checking file integrity to remove corruption images is an important first step. Computing Image Sharpness is an effective way to programmatically identify and filter blur or out-of-focus Images. Using pre-trained image assessment models is another advanced and automatic approach to identifying and removing images of low quality, even if they are not overtly corrupted. Manually checking would take too long. Average pixel intensity is often useful to filter.

NEW QUESTION # 75

Consider the following code snippet, where you are trying to load image and text data for a multimodal model. What is the most likely cause of error if the code fails during the image loading step?

- A. The learning rate is set too high.
- B. The system doesn't have CUDA drivers installed.
- C. The batch size is too large.
- D. The image files are corrupted or in an unsupported format.
- E. The text data is not in UTF-8 encoding.

Answer: D

Explanation:

Since the error occurs specifically during the image loading step, the most likely cause is related to the image files themselves. Corrupted files or unsupported formats would prevent the image loading library from successfully reading the images. The other options are less likely to cause an error specifically during image loading.

NEW QUESTION # 76

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