

# Valid NCA-GENL Exam Sims & NCA-GENL Sample Questions Answers

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## NVIDIA Generative AI LLMs Sample Questions (Q43-Q48):

### NEW QUESTION # 43

What is Retrieval Augmented Generation (RAG)?

- A. RAG is a technique used to fine-tune pre-trained LLMs for improved performance.
- B. RAG is an architecture used to optimize the output of an LLM by retraining the model with domain-specific data.
- **C. RAG is a methodology that combines an information retrieval component with a response generator.**
- D. RAG is a method for manipulating and generating text-based data using Transformer-based LLMs.

**Answer: C**

Explanation:

Retrieval-Augmented Generation (RAG) is a methodology that enhances the performance of large language models (LLMs) by integrating an information retrieval component with a generative model. As described in the seminal paper by Lewis et al. (2020), RAG retrieves relevant documents from an external knowledge base (e.g., using dense vector representations) and uses them to inform the generative process, enabling more accurate and contextually relevant responses. NVIDIA's documentation on generative AI workflows, particularly in the context of NeMo and Triton Inference Server, highlights RAG as a technique to improve LLM

outputs by grounding them in external data, especially for tasks requiring factual accuracy or domain-specific knowledge. Option A is incorrect because RAG does not involve retraining the model but rather augments it with retrieved data. Option C is too vague and does not capture the retrieval aspect, while Option D refers to fine-tuning, which is a separate process.

References:

Lewis, P., et al. (2020). "Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks." NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

## NEW QUESTION # 44

Which metric is commonly used to evaluate machine-translation models?

- A. ROUGE score
- B. Perplexity
- C. BLEU score
- D. F1 Score

**Answer: A**

Explanation:

The BLEU (Bilingual Evaluation Understudy) score is the most commonly used metric for evaluating machine-translation models. It measures the precision of n-gram overlaps between the generated translation and reference translations, providing a quantitative measure of translation quality. NVIDIA's NeMo documentation on NLP tasks, particularly machine translation, highlights BLEU as the standard metric for assessing translation performance due to its focus on precision and fluency. Option A (F1 Score) is used for classification tasks, not translation. Option C (ROUGE) is primarily for summarization, focusing on recall.

Option D (Perplexity) measures language model quality but is less specific to translation evaluation.

References:

NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

Papineni, K., et al. (2002). "BLEU: A Method for Automatic Evaluation of Machine Translation."

## NEW QUESTION # 45

What is a foundation model in the context of Large Language Models (LLMs)?

- A. A model that sets the state-of-the-art results for any of the tasks that compose the General Language Understanding Evaluation (GLUE) benchmark.
- B. Any model based on the foundation paper "Attention is all you need," that uses recurrent neural networks and convolution layers.
- C. Any model trained on vast quantities of data at scale whose goal is to serve as a starter that can be adapted to a variety of downstream tasks.
- D. Any model validated by the artificial intelligence safety institute as the foundation for building transformer-based applications.

**Answer: C**

Explanation:

In the context of Large Language Models (LLMs), a foundation model refers to a large-scale model trained on vast quantities of diverse data, designed to serve as a versatile starting point that can be fine-tuned or adapted for a variety of downstream tasks, such as text generation, classification, or translation. As covered in NVIDIA's Generative AI and LLMs course, foundation models like BERT, GPT, or T5 are pre-trained on massive datasets and can be customized for specific applications, making them highly flexible and efficient.

Option A is incorrect, as achieving state-of-the-art results on GLUE is not a defining characteristic of foundation models, though some may perform well on such benchmarks. Option C is wrong, as there is no specific validation by an AI safety institute required to define a foundation model. Option D is inaccurate, as the "Attention is All You Need" paper introduced Transformers, which rely on attention mechanisms, not recurrent neural networks or convolution layers. The course states: "Foundation models are large-scale models trained on broad datasets, serving as a base for adaptation to various downstream tasks in NLP." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

## NEW QUESTION # 46

Which of the following contributes to the ability of RAPIDS to accelerate data processing? (Pick the 2 correct responses)

- A. Ensuring that CPUs are running at full clock speed.
- B. **Using the GPU for parallel processing of data.**
- C. Providing more memory for data analysis.
- D. Subsampling datasets to provide rapid but approximate answers.
- E. **Enabling data processing to scale to multiple GPUs.**

**Answer: B,E**

Explanation:

RAPIDS is an open-source suite of GPU-accelerated data science libraries developed by NVIDIA to speed up data processing and machine learning workflows. According to NVIDIA's RAPIDS documentation, its key advantages include:

\* Option C: Using GPUs for parallel processing, which significantly accelerates computations for tasks like data manipulation and machine learning compared to CPU-based processing

References:

NVIDIA RAPIDS Documentation: <https://rapids.ai/>

## NEW QUESTION # 47

Transformers are useful for language modeling because their architecture is uniquely suited for handling which of the following?

- A. Long sequences
- B. Translations
- C. Embeddings
- D. Class tokens

**Answer: A**

Explanation:

The transformer architecture, introduced in "Attention is All You Need" (Vaswani et al., 2017), is particularly effective for language modeling due to its ability to handle long sequences. Unlike RNNs, which struggle with long-term dependencies due to sequential processing, transformers use self-attention mechanisms to process all tokens in a sequence simultaneously, capturing relationships across long distances. NVIDIA's NeMo documentation emphasizes that transformers excel in tasks like language modeling because their attention mechanisms scale well with sequence length, especially with optimizations like sparse attention or efficient attention variants. Option B (embeddings) is a component, not a unique strength. Option C (class tokens) is specific to certain models like BERT, not a general transformer feature. Option D (translations) is an application, not a structural advantage.

References:

Vaswani, A., et al. (2017). "Attention is All You Need."

NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

## NEW QUESTION # 48

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