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## Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Using OCI Generative AI Service: For AI Specialists, this section covers dedicated AI clusters for fine-tuning and inference. The topic also focuses on the fundamentals of OCI Generative AI service, foundational models for Generation, Summarization, and Embedding.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Building an LLM Application with OCI Generative AI Service: For AI Engineers, this section covers Retrieval Augmented Generation (RAG) concepts, vector database concepts, and semantic search concepts. It also focuses on deploying an LLM, tracing and evaluating an LLM, and building an LLM application with RAG and LangChain.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Fundamentals of Large Language Models (LLMs): For AI developers and Cloud Architects, this topic discusses LLM architectures and LLM fine-tuning. Additionally, it focuses on prompts for LLMs and fundamentals of code models.</li></ul>

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## Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q30-Q35):

### NEW QUESTION # 30

Given a block of code:

qa = Conversational Retrieval Chain, from l1m (l1m, retriever-rtv, memory-memory) when does a chain typically interact with memory during execution?

- A. Only after the output has been generated
- B. Before user input and after chain execution
- C. After user input but before chain execution, and again after core logic but before output
- D. Continuously throughout the entire chain execution process

**Answer: C**

Explanation:

In a Conversational Retrieval Chain using LangChain, the chain typically interacts with memory at two key points: after the user input but before the chain execution, and again after the core logic but before the output is generated. This approach allows the system to update the memory with relevant context before executing the chain's main logic and then update the memory again with any new information or context gained during the execution before producing the final output.

Reference

LangChain documentation on Conversational Retrieval Chains

Technical guides on managing memory in conversational AI models

### NEW QUESTION # 31

Which statement describes the difference between Top V and Top p" in selecting the next token in the OCI Generative AI Generation models?

- A. Top k selects the next token based on its position in the list of probable tokens, whereas "Top p" selects based on the cumulative probability of the Top token.
- B. Top k and Top p" both select from the same set of tokens but use different methods to prioritize them based on frequency.
- C. Top K considers the sum of probabilities of the top tokens, whereas Top" selects from the Top k" tokens sorted by probability.
- D. Top k and "Top p" are identical in their approach to token selection but differ in their application of penalties to tokens.

**Answer: C**

### NEW QUESTION # 32

What is the purpose of Retrieval Augmented Generation (RAG) in text generation?

- A. To generate text based only on the model's internal knowledge without external data
- B. To retrieve text from an external source and present it without any modifications
- C. To generate text using extra information obtained from an external data source
- D. To store text in an external database without using it for generation

**Answer: C**

Explanation:

Retrieval-Augmented Generation (RAG) combines retrieval mechanisms with text generation, allowing models to pull external knowledge before generating responses.

How RAG Works:

The model retrieves relevant documents from an external database.

Uses this retrieved information to generate factually grounded responses.

Reduces hallucinations, improving accuracy and context relevance.

Why Other Options Are Incorrect:

(A) is incorrect because RAG modifies the retrieved text by integrating it into a generated response.

(B) is incorrect because RAG retrieves and uses data, not just stores it.

(C) is incorrect because RAG relies on external knowledge, whereas LLMs alone use internal pre-trained knowledge.

□ Oracle Generative AI Reference:

Oracle AI applies RAG techniques to improve enterprise AI applications, enhancing fact-based text generation.

### NEW QUESTION # 33

Why is it challenging to apply diffusion models to text generation?

- A. Because text is not categorical
- **B. Because text representation is categorical unlike images**
- C. Because diffusion models can only produce images
- D. Because text generation does not require complex models

**Answer: B**

Explanation:

Diffusion models are primarily used for image generation because they work by incrementally adding noise to a data distribution and then learning to remove it, effectively denoising an image over time. This method works well for continuous data, such as pixel values in images.

However, text is fundamentally categorical, meaning:

Discrete Nature of Text - Unlike images where pixel values change smoothly, text is composed of discrete symbols (words, characters, or tokens), making it difficult to apply continuous noise diffusion.

Tokenization Challenges - Language models work with tokenized words or subwords. Diffusion models would need a way to gradually transition between discrete text tokens, which is not straightforward.

Non-Sequential Nature of Noise Addition - Image-based diffusion models can modify pixel values slightly to learn transformations, but text does not have an equivalent smooth transformation between words.

Alternative Approaches in Text Generation - Due to these challenges, text generation relies more on transformer-based models (like Oracle's AI-driven NLP models), which handle categorical text more effectively than diffusion methods.

□ Oracle Generative AI Reference:

Oracle focuses on transformer-based models for text-related AI applications rather than diffusion models, as transformers are more effective in understanding and generating text.

### NEW QUESTION # 34

Which statement is true about the "Top p" parameter of the OCI Generative AI Generation models?

- A. Top p determines the maximum number of tokens per response.
- B. Top p selects tokens from the "Top k" tokens sorted by probability.
- **C. Top p limits token selection based on the sum of their probabilities.**
- D. Top p assigns penalties to frequently occurring tokens.

**Answer: C**

### NEW QUESTION # 35

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