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Oracle 1Z0-1127-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Implement RAG Using OCI Generative AI Service: This section tests the knowledge of Knowledge Engineers and Database Specialists in implementing Retrieval-Augmented Generation (RAG) workflows using OCI Generative AI services. It covers integrating LangChain with Oracle Database 23ai, document processing techniques like chunking and embedding, storing indexed chunks in Oracle Database 23ai, performing similarity searches, and generating responses using OCI Generative AI.
Topic 2	<ul style="list-style-type: none">Fundamentals of Large Language Models (LLMs): This section of the exam measures the skills of AI Engineers and Data Scientists in understanding the core principles of large language models. It covers LLM architectures, including transformer-based models, and explains how to design and use prompts effectively. The section also focuses on fine-tuning LLMs for specific tasks and introduces concepts related to code models, multi-modal capabilities, and language agents.
Topic 3	<ul style="list-style-type: none">Using OCI Generative AI RAG Agents Service: This domain measures the skills of Conversational AI Developers and AI Application Architects in creating and managing RAG agents using OCI Generative AI services. It includes building knowledge bases, deploying agents as chatbots, and invoking deployed RAG agents for interactive use cases. The focus is on leveraging generative AI to create intelligent conversational systems.
Topic 4	<ul style="list-style-type: none">Using OCI Generative AI Service: This section evaluates the expertise of Cloud AI Specialists and Solution Architects in utilizing Oracle Cloud Infrastructure (OCI) Generative AI services. It includes understanding pre-trained foundational models for chat and embedding, creating dedicated AI clusters for fine-tuning and inference, and deploying model endpoints for real-time inference. The section also explores OCI's security architecture for generative AI and emphasizes responsible AI practices.

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Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q76-Q81):

NEW QUESTION # 76

What does the Ranker do in a text generation system?

- A. It evaluates and prioritizes the information retrieved by the Retriever.
- B. It interacts with the user to understand the query better.
- C. It sources information from databases to use in text generation.
- D. It generates the final text based on the user's query.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In systems like RAG, the Ranker evaluates and sorts the information retrieved by the Retriever (e.g., documents or snippets) based on relevance to the query, ensuring the most pertinent data is passed to the Generator. This makes Option C correct. Option A is the Generator's role. Option B describes the Retriever. Option D is unrelated, as the Ranker doesn't interact with users but processes retrieved data. The Ranker enhances output quality by prioritizing relevant content.

OCI 2025 Generative AI documentation likely details the Ranker under RAG pipeline components.

NEW QUESTION # 77

Which component of Retrieval-Augmented Generation (RAG) evaluates and prioritizes the information retrieved by the retrieval system?

- A. Encoder-Decoder
- B. Retriever
- C. Ranker
- D. Generator

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In RAG, the Ranker evaluates and prioritizes retrieved information (e.g., documents) based on relevance to the query, refining what the Retriever fetches-Option D is correct. The Retriever (A) fetches data, not ranks it. Encoder-Decoder (B) isn't a distinct RAG component-it's part of the LLM. The Generator (C) produces text, not prioritizes. Ranking ensures high-quality inputs for generation.

OCI 2025 Generative AI documentation likely details the Ranker under RAG pipeline components.

NEW QUESTION # 78

What does the RAG Sequence model do in the context of generating a response?

- A. For each input query, it retrieves a set of relevant documents and considers them together to generate a cohesive response.
- B. It retrieves relevant documents only for the initial part of the query and ignores the rest.
- C. It retrieves a single relevant document for the entire input query and generates a response based on that alone.
- D. It modifies the input query before retrieving relevant documents to ensure a diverse response.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

The RAG (Retrieval-Augmented Generation) Sequence model retrieves a set of relevant documents for a query from an external knowledge base (e.g., via a vector database) and uses them collectively with the LLM to generate a cohesive, informed response. This leverages multiple sources for better context, making Option B correct. Option A describes a simpler approach (e.g., RAG Token), not Sequence. Option C is incorrect-RAG considers the full query. Option D is false-query modification isn't standard in RAG Sequence. This method enhances response quality with diverse inputs.

OCI 2025 Generative AI documentation likely details RAG Sequence under retrieval-augmented techniques.

NEW QUESTION # 79

Accuracy in vector databases contributes to the effectiveness of Large Language Models (LLMs) by preserving a specific type of relationship. What is the nature of these relationships, and why are they crucial for language models?

- A. Linear relationships; they simplify the modeling process
- B. Semantic relationships; crucial for understanding context and generating precise language
- C. Hierarchical relationships; important for structuring database queries
- D. Temporal relationships; necessary for predicting future linguistic trends

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Vector databases store embeddings that preserve semantic relationships (e.g., similarity between "dog" and "puppy") via their positions in high-dimensional space. This accuracy enables LLMs to retrieve contextually relevant data, improving understanding and generation, making Option B correct. Option A (linear) is too vague and unrelated. Option C (hierarchical) applies more to relational databases. Option D (temporal) isn't the focus-semantics drives LLM performance. Semantic accuracy is vital for meaningful outputs.

OCI 2025 Generative AI documentation likely discusses vector database accuracy under embeddings and RAG.

NEW QUESTION # 80

What does in-context learning in Large Language Models involve?

- A. Training the model using reinforcement learning
- B. Conditioning the model with task-specific instructions or demonstrations
- C. Adding more layers to the model
- D. Pretraining the model on a specific domain

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In-context learning is a capability of LLMs where the model adapts to a task by interpreting instructions or examples provided in the input prompt, without additional training. This leverages the model's pre-trained knowledge, making Option C correct. Option A refers to domain-specific pretraining, not in-context learning. Option B involves reinforcement learning, a different training paradigm. Option D pertains to architectural changes, not learning via context.

OCI 2025 Generative AI documentation likely discusses in-context learning in sections on prompt-based customization.

NEW QUESTION # 81

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