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Oracle 1Z0-1127-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.

Topic 4	<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.
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Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q54-Q59):

NEW QUESTION # 54

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

- A. To retrieve text from an external source and present it without any modifications
- B. To generate text based only on the model's internal knowledge without external data
- **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:

Comprehensive and Detailed In-Depth Explanation=

RAG enhances text generation by combining an LLM's internal knowledge with external data retrieved from sources (e.g., vector databases), improving accuracy and relevance. This makes Option B correct. Option A describes standalone LLMs, not RAG. Option C misrepresents RAG's purpose-data is used, not just stored. Option D is incorrect-RAG generates new text, not just retrieves. RAG is ideal for dynamic, informed responses.

OCI 2025 Generative AI documentation likely explains RAG under advanced generation techniques.

NEW QUESTION # 55

What is the characteristic of T-Few fine-tuning for Large Language Models (LLMs)?

- **A. It selectively updates only a fraction of weights to reduce computational load and avoid overfitting.**
- B. It increases the training time as compared to Vanilla fine-tuning.
- C. It updates all the weights of the model uniformly.
- D. It selectively updates only a fraction of weights to reduce the number of parameters.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

T-Few fine-tuning (a Parameter-Efficient Fine-Tuning method) updates a small subset of the model's weights, reducing computational cost and mitigating overfitting compared to Vanilla fine-tuning, which updates all weights. This makes Option C correct. Option A describes Vanilla fine-tuning, not T-Few. Option B is incomplete, as it omits the overfitting benefit. Option D is false, as T-Few typically reduces training time due to fewer updates. T-Few balances efficiency and performance.

OCI 2025 Generative AI documentation likely describes T-Few under fine-tuning options.

NEW QUESTION # 56

How are prompt templates typically designed for language models?

- A. To be used without any modification or customization
- **B. As predefined recipes that guide the generation of language model prompts**
- C. To work only with numerical data instead of textual content
- D. As complex algorithms that require manual compilation

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Prompt templates are predefined, reusable structures (e.g., with placeholders for variables) that guide LLM prompt creation, streamlining consistent input formatting. This makes Option B correct. Option A is false, as templates aren't complex algorithms but simple frameworks. Option C is incorrect, as templates are customizable. Option D is wrong, as they handle text, not just numbers. Templates enhance efficiency in prompt engineering.

OCI 2025 Generative AI documentation likely covers prompt templates under prompt engineering or LangChain tools.

Here is the next batch of 10 questions (21-30) from your list, formatted as requested with detailed explanations. The answers are based on widely accepted principles in generative AI and Large Language Models (LLMs), aligned with what is likely reflected in the Oracle Cloud Infrastructure (OCI) 2025 Generative AI documentation. Typographical errors have been corrected for clarity.

NEW QUESTION # 57

When does a chain typically interact with memory in a run within the LangChain framework?

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

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In LangChain, a chain interacts with memory after receiving user input (to load prior context) but before execution (to inform the process), and again after the core logic (to update memory with new context) but before the final output. This ensures context continuity, making Option C correct. Option A is too late, missing pre-execution context. Option B is misordered. Option D overstates interaction, as it's not continuous but at specific points. Memory integration is key for stateful chains.

OCI 2025 Generative AI documentation likely details memory interaction under LangChain workflows.

NEW QUESTION # 58

What does the Loss metric indicate about a model's predictions?

- **A. Loss is a measure that indicates how wrong the model's predictions are.**
- B. Loss indicates how good a prediction is, and it should increase as the model improves.
- C. Loss describes the accuracy of the right predictions rather than the incorrect ones.
- D. Loss measures the total number of predictions made by a model.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Loss is a metric that quantifies the difference between a model's predictions and the actual target values, indicating how incorrect (or "wrong") the predictions are. Lower loss means better performance, making Option B correct. Option A is false-loss isn't about prediction count. Option C is incorrect-loss decreases as the model improves, not increases. Option D is wrong-loss measures overall error, not just correct predictions. Loss guides training optimization.

OCI 2025 Generative AI documentation likely defines loss under model training and evaluation metrics.

NEW QUESTION # 59

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