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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"> 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 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"> 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 (Q14-Q19):

NEW QUESTION # 14

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

- A. Before user input and after chain execution
- B. Only after the output has been generated
- 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:

Comprehensive and Detailed In-Depth Explanation=

In LangChain, a chain interacts with memory after receiving user input (to retrieve context) but before execution (to inform processing), and again after core logic (to update memory) but before output (to maintain state). This makes Option C correct. Option A misses pre-execution context. Option B misplaces timing. Option D overstates interaction is at specific stages, not continuous. Memory ensures context-aware responses.

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

NEW QUESTION # 15

In the simplified workflow for managing and querying vector data, what is the role of indexing?

- A. To convert vectors into a non-indexed format for easier retrieval
- B. To map vectors to a data structure for faster searching, enabling efficient retrieval**
- C. To compress vector data for minimized storage usage
- D. To categorize vectors based on their originating data type (text, images, audio)

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Indexing in vector databases maps high-dimensional vectors to a data structure (e.g., HNSW, Annoy) to enable fast, efficient similarity searches, critical for real-time retrieval in LLMs. This makes Option B correct. Option A is backwards-indexing organizes, not de-indexes. Option C (compression) is a side benefit, not the primary role. Option D (categorization) isn't indexing's purpose—it's about search efficiency. Indexing powers scalable vector queries.

OCI 2025 Generative AI documentation likely explains indexing under vector database operations.

NEW QUESTION # 16

What do prompt templates use for templating in language model applications?

- A. Python's lambda functions
- B. Python's list comprehension syntax
- **C. Python's str.format syntax**
- D. Python's class and object structures

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Prompt templates in LLM applications (e.g., LangChain) typically use Python's str.format() syntax to insert variables into predefined string patterns (e.g., "Hello, {name}!"). This makes Option B correct. Option A (list comprehension) is for list operations, not templating. Option C (lambda functions) defines functions, not templates. Option D (classes/objects) is overkill—templates are simpler constructs. str.format() ensures flexibility and readability.

OCI 2025 Generative AI documentation likely mentions str.format() under prompt template design.

NEW QUESTION # 17

What is the primary purpose of LangSmith Tracing?

- A. To monitor the performance of language models
- B. To analyze the reasoning process of language models
- C. To generate test cases for language models
- **D. To debug issues in language model outputs**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation=

LangSmith Tracing is a tool for debugging and understanding LLM applications by tracking inputs, outputs, and intermediate steps, helping identify issues in complex chains. This makes Option C correct. Option A (test cases) is a secondary use, not primary.

Option B (reasoning) overlaps but isn't the core focus—debugging is. Option D (performance) is broader—tracing targets specific issues. It's essential for development transparency. OCI 2025 Generative AI documentation likely covers LangSmith under debugging or monitoring tools.

NEW QUESTION # 18

In the context of generating text with a Large Language Model (LLM), what does the process of greedy decoding entail?

- A. Picking a word based on its position in a sentence structure
- B. Using a weighted random selection based on a modulated distribution
- **C. Choosing the word with the highest probability at each step of decoding**
- D. Selecting a random word from the entire vocabulary at each step

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Greedy decoding selects the word with the highest probability at each step, aiming for locally optimal choices without considering future tokens. This makes Option C correct. Option A (random selection) describes sampling, not greedy decoding. Option B (position-based) isn't how greedy decoding works—it's probability-driven. Option D (weighted random) aligns with top-k or top-p sampling, not greedy. Greedy decoding is fast but can lack diversity.

OCI 2025 Generative AI documentation likely explains greedy decoding under decoding strategies.

NEW QUESTION # 19

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