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## Oracle 1Z0-1127-25 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>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.</li></ul> |

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|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 2 | <ul style="list-style-type: none"> <li>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.</li> </ul>                                                                               |
| Topic 3 | <ul style="list-style-type: none"> <li>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.</li> </ul>                            |
| Topic 4 | <ul style="list-style-type: none"> <li>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.</li> </ul> |

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## Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q70-Q75):

### NEW QUESTION # 70

Given the following code:

```
chain = prompt | llm
```

Which statement is true about LangChain Expression Language (LCEL)?

- A. LCEL is a declarative and preferred way to compose chains together.
- B. LCEL is a programming language used to write documentation for LangChain.
- C. LCEL is a legacy method for creating chains in LangChain.
- D. LCEL is an older Python library for building Large Language Models.

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

LangChain Expression Language (LCEL) is a declarative syntax (e.g., using | to pipe components) for composing chains in LangChain, combining prompts, LLMs, and other elements efficiently-Option C is correct. Option A is false-LCEL isn't for documentation. Option B is incorrect-it's current, not legacy; traditional Python classes are older. Option D is wrong-LCEL is part of LangChain, not a standalone LLM library. LCEL simplifies chain design.

OCI 2025 Generative AI documentation likely highlights LCEL under LangChain chaincomposition.

### NEW QUESTION # 71

What is the primary purpose of LangSmith Tracing?

- A. To debug issues in language model outputs
- B. To monitor the performance of language models

- C. To analyze the reasoning process of language models
- D. To generate test cases for language models

**Answer: A**

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 # 72

Why is normalization of vectors important before indexing in a hybrid search system?

- A. It ensures that all vectors represent keywords only.
- **B. It standardizes vector lengths for meaningful comparison using metrics such as Cosine Similarity.**
- C. It converts all sparse vectors to dense vectors.
- D. It significantly reduces the size of the database.

**Answer: B**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Normalization scales vectors to unit length, ensuring comparisons (e.g., cosine similarity) reflect directional similarity, not magnitude differences, critical for hybrid search accuracy. This makes Option C correct. Option A is false-vectors represent semantics, not just keywords. Option B (size reduction) isn't the goal. Option D (sparse to dense) is unrelated-normalization adjusts length. Normalized vectors ensure fair similarity metrics.

OCI 2025 Generative AI documentation likely explains normalization under vector preprocessing.

## NEW QUESTION # 73

What is the purpose of the "stop sequence" parameter in the OCI Generative AI Generation models?

- A. It determines the maximum number of tokens the model can generate per response.
- B. It assigns a penalty to frequently occurring tokens to reduce repetitive text.
- **C. It specifies a string that tells the model to stop generating more content.**
- D. It controls the randomness of the model's output, affecting its creativity.

**Answer: C**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

The "stop sequence" parameter defines a string (e.g., "." or "\n") that, when generated, halts text generation, allowing control over output length or structure-Option A is correct. Option B (penalty) describes frequency/presence penalties. Option C (max tokens) is a separate parameter. Option D (randomness) relates to temperature. Stop sequences ensure precise termination.

OCI 2025 Generative AI documentation likely details stop sequences under generation parameters.

## NEW QUESTION # 74

What is the purpose of frequency penalties in language model outputs?

- A. To ensure that tokens that appear frequently are used more often
- **B. To penalize tokens that have already appeared, based on the number of times they have been used**
- C. To reward the tokens that have never appeared in the text
- D. To randomly penalize some tokens to increase the diversity of the text

**Answer: B**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Frequency penalties reduce the likelihood of repeating tokens that have already appeared in the output, based on their frequency, to enhance diversity and avoid repetition. This makes Option B correct. Option A is the opposite effect. Option C describes a different mechanism (e.g., presence penalty in some contexts). Option D is inaccurate, as penalties aren't random but frequency-based.

OCI 2025 Generative AI documentation likely covers frequency penalties under output control parameters.

Below is the next batch of 10 questions (11-20) from your list, formatted as requested with detailed explanations. These 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 # 75

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