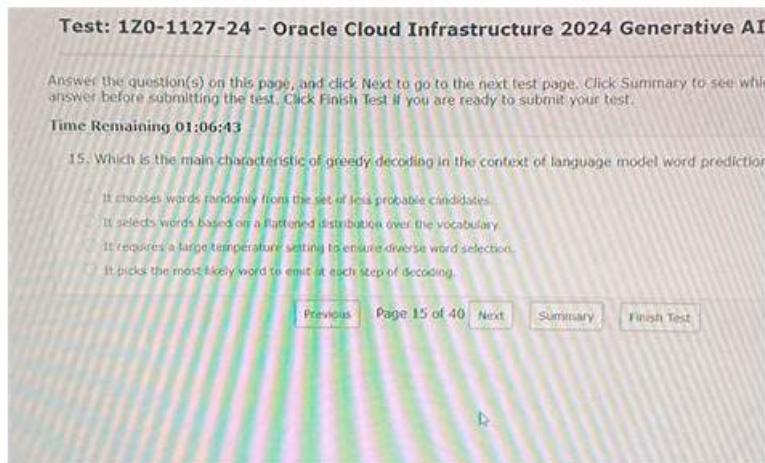


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## Oracle 1Z0-1127-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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>
Topic 3	<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>
Topic 4	<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>

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### Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q46-Q51):

#### NEW QUESTION # 46

Which statement is true about string prompt templates and their capability regarding variables?

- A. They are unable to use any variables.
- B. They require a minimum of two variables to function properly.
- C. They support any number of variables, including the possibility of having none.
- D. They can only support a single variable at a time.

**Answer: C**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

String prompt templates (e.g., in LangChain) are flexible frameworks that can include zero, one, or multiple variables (placeholders) to customize prompts dynamically. They can be static (no variables) or complex (many variables), making Option C correct. Option A is too restrictive. Option B is false-variables are a core feature. Option D is incorrect, as no minimum is required. This flexibility aids prompt engineering.

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

#### NEW QUESTION # 47

When should you use the T-Few fine-tuning method for training a model?

- A. For datasets with hundreds of thousands to millions of samples
- B. For datasets with a few thousand samples or less
- C. For models that require their own hosting dedicated AI cluster
- D. For complicated semantic understanding improvement

**Answer: B**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

T-Few is ideal for smaller datasets (e.g., a few thousand samples) where full fine-tuning risks overfitting and is computationally wasteful-Option C is correct. Option A (semantic understanding) is too vague-dataset size matters more. Option B (dedicated cluster) isn't a condition for T-Few. Option D (large datasets) favors Vanilla fine-tuning. T-Few excels in low-data scenarios. OCI 2025 Generative AI documentation likely specifies T-Few use cases under fine-tuning guidelines.

#### NEW QUESTION # 48

Which is a cost-related benefit of using vector databases with Large Language Models (LLMs)?

- A. They increase the cost due to the need for real-time updates.
- B. They offer real-time updated knowledge bases and are cheaper than fine-tuned LLMs.
- C. They are more expensive but provide higher quality data.
- D. They require frequent manual updates, which increase operational costs.

**Answer: B**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Vector databases enable real-time knowledge retrieval for LLMs (e.g., in RAG), avoiding the high computational and data costs of fine-tuning an LLM for every update. They store embeddings efficiently, making them a cost-effective alternative to retraining, thus Option B is correct. Option A is false-updates are automated, not manual. Option C misrepresents-real-time capability reduces, not increases, costs compared to fine-tuning. Option D is incorrect-vector databases aren't inherently more expensive; they optimize cost and performance. This makes them economical for dynamic applications.

OCI 2025 Generative AI documentation likely highlights vector database cost benefits under RAG or data management sections.

#### NEW QUESTION # 49

Which statement describes the difference between "Top k" 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 tokens.
- B. "Top k" and "Top p" are identical in their approach to token selection but differ in their application of penalties to tokens.
- C. "Top k" considers the sum of probabilities of the top tokens, whereas "Top p" selects from the "Top k" tokens sorted by probability.
- D. "Top k" and "Top p" both select from the same set of tokens but use different methods to prioritize them based on frequency.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

"Top k" sampling selects from the k most probable tokens, based on their ranked position, while "Top p" (nucleus sampling) selects from tokens whose cumulative probability exceeds p, focusing on a dynamic probability mass-Option B is correct. Option A is false-they differ in selection, not penalties. Option C reverses definitions. Option D (frequency) is incorrect-both use probability, not frequency. This distinction affects diversity.

OCI 2025 Generative AI documentation likely contrasts Top k and Top p under sampling methods.

#### NEW QUESTION # 50

An LLM emits intermediate reasoning steps as part of its responses. Which of the following techniques is being utilized?

- A. Step-Back Prompting
- B. Chain-of-Thought
- C. In-context Learning
- D. Least-to-Most Prompting

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Chain-of-Thought (CoT) prompting encourages an LLM to emit intermediate reasoning steps before providing a final answer, improving performance on complex tasks by mimicking human reasoning. This matches the scenario, making Option D correct. Option A (In-context Learning) involves learning from examples in the prompt, not necessarily reasoning steps. Option B (Step-Back Prompting) involves reframing the problem, not emitting steps. Option C (Least-to-Most Prompting) breaks tasks into subtasks but doesn't focus on intermediate reasoning explicitly. CoT is widely recognized for reasoning tasks.

OCI 2025 Generative AI documentation likely covers Chain-of-Thought under advanced prompting techniques.

#### NEW QUESTION # 51

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