

2026 1Z0-1127-25: Valid Oracle Cloud Infrastructure 2025 Generative AI Professional Certified Questions



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Oracle 1Z0-1127-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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.
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Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q45-Q50):

NEW QUESTION # 45

How does the structure of vector databases differ from traditional relational databases?

- A. It is not optimized for high-dimensional spaces.
- B. It stores data in a linear or tabular format.
- **C. It is based on distances and similarities in a vector space.**
- D. It uses simple row-based data storage.

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Vector databases store data as high-dimensional vectors (embeddings) and are optimized for similarity searches using metrics like cosine distance, unlike relational databases, which use tabular rows and columns for structured data. This makes Option D correct. Options A and C describe relational databases, not vector ones. Option B is false, as vector databases are specifically designed for high-dimensional spaces. Vector databases excel in semantic search and LLM integration.

OCI 2025 Generative AI documentation likely contrasts vector and relational databases under data storage.

NEW QUESTION # 46

What is prompt engineering in the context of Large Language Models (LLMs)?

- A. Adjusting the hyperparameters of the model
- B. Adding more layers to the neural network
- C. Training the model on a large dataset
- **D. Iteratively refining the ask to elicit a desired response**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Prompt engineering involves crafting and refining input prompts to guide an LLM to produce desired outputs without altering its internal structure or parameters. It's an iterative process that leverages the model's pre-trained knowledge, making Option A correct. Option B is unrelated, as adding layers pertains to model architecture design, not prompting. Option C refers to hyperparameter tuning (e.g., temperature), not prompt engineering. Option D describes pretraining or fine-tuning, not prompt engineering. OCI 2025 Generative AI documentation likely covers prompt engineering in sections on model interaction or inference.

NEW QUESTION # 47

What does the term "hallucination" refer to in the context of Large Language Models (LLMs)?

- A. A technique used to enhance the model's performance on specific tasks
- **B. The phenomenon where the model generates factually incorrect information or unrelated content as if it were true**
- C. The model's ability to generate imaginative and creative content
- D. The process by which the model visualizes and describes images in detail

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In LLMs, "hallucination" refers to the generation of plausible-sounding but factually incorrect or irrelevant content, often presented with confidence. This occurs due to the model's reliance on patterns in training data rather than factual grounding, making Option D correct. Option A describes a positive trait, not hallucination. Option B is unrelated, as hallucination isn't a performance-enhancing technique. Option C pertains to multimodal models, not the general definition of hallucination in LLMs.

OCI 2025 Generative AI documentation likely addresses hallucination under model limitations or evaluation metrics.

NEW QUESTION # 48

How does a presence penalty function in language model generation?

- A. It penalizes all tokens equally, regardless of how often they have appeared.
- B. It penalizes only tokens that have never appeared in the text before.
- **C. It penalizes a token each time it appears after the first occurrence.**
- D. It applies a penalty only if the token has appeared more than twice.

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation=

A presence penalty reduces the probability of tokens that have already appeared in the output, applying the penalty each time they reoccur after their first use, to discourage repetition. This makes Option D correct. Option A (equal penalties) ignores prior appearance. Option B is the opposite-penalizing unused tokens isn't the intent. Option C (more than twice) adds an arbitrary threshold not typically used. Presence penalty enhances output variety. OCI 2025 Generative AI documentation likely details presence penalty under generation control parameters.

NEW QUESTION # 49

What is the function of "Prompts" in the chatbot system?

- A. They are responsible for the underlying mechanics of the chatbot.
- B. They store the chatbot's linguistic knowledge.
- C. They handle the chatbot's memory and recall abilities.
- **D. They are used to initiate and guide the chatbot's responses.**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Prompts in a chatbot system are inputs provided to the LLM to initiate and steer its responses, often including instructions, context, or examples. They shape the chatbot's behavior without altering its core mechanics, making Option B correct. Option A is false, as knowledge is stored in the model's parameters. Option C relates to the model's architecture, not prompts. Option D pertains to memory systems, not prompts directly. Prompts are key for effective interaction.

OCI 2025 Generative AI documentation likely covers prompts under chatbot design or inference sections.

NEW QUESTION # 50

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