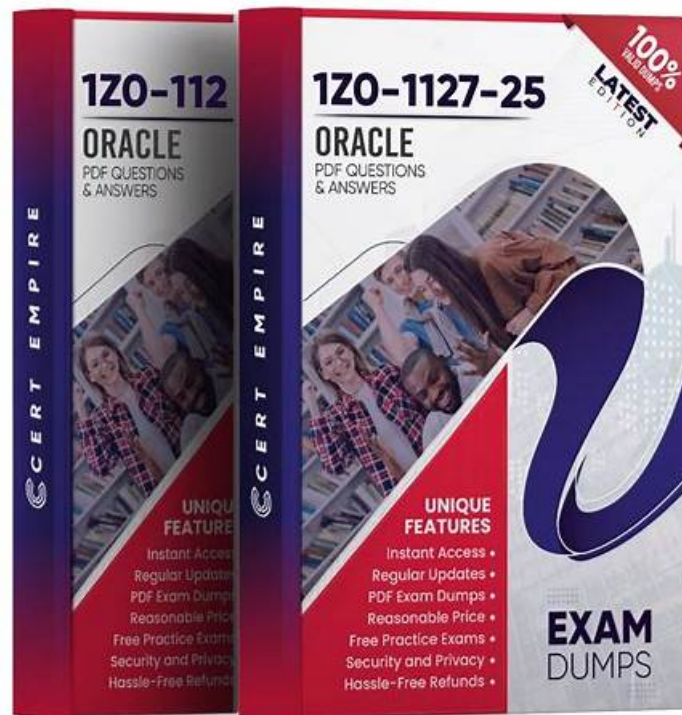


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Oracle 1Z0-1127-25 Exam Syllabus Topics:

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 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 3	<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 4	<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.

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Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q14-Q19):

NEW QUESTION # 14

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

- **A. It selectively updates only a fraction of the model's weights.**
- B. It updates all the weights of the model uniformly.
- C. It does not update any weights but restructures the model architecture.
- D. It increases the training time as compared to Vanilla fine-tuning.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

T-Few fine-tuning, a Parameter-Efficient Fine-Tuning (PEFT) method, updates only a small fraction of an LLM's weights, reducing computational cost and overfitting risk compared to Vanilla fine-tuning (all weights). This makes Option C correct. Option A describes Vanilla fine-tuning. Option B is false-T-Few updates weights, not architecture. Option D is incorrect-T-Few typically reduces training time. T-Few optimizes efficiency.

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

NEW QUESTION # 15

An AI development company is working on an advanced AI assistant capable of handling queries in a seamless manner. Their goal is to create an assistant that can analyze images provided by users and generate descriptive text, as well as take text descriptions and produce accurate visual representations. Considering the capabilities, which type of model would the company likely focus on integrating into their AI assistant?

- A. A Large Language Model-based agent that focuses on generating textual responses
- **B. A diffusion model that specializes in producing complex outputs.**
- C. A Retrieval Augmented Generation (RAG) model that uses text as input and output
- D. A language model that operates on a token-by-token output basis

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

The task requires bidirectional text-image capabilities: analyzing images to generate text and generating images from text. Diffusion models (e.g., Stable Diffusion) excel at complex generative tasks, including text-to-image and image-to-text with appropriate extensions, making Option A correct. Option B (LLM) is text-only. Option C (token-based LLM) lacks image handling. Option D (RAG) focuses on text retrieval, not image generation. Diffusion models meet both needs.

OCI 2025 Generative AI documentation likely discusses diffusion models under multimodal applications.

NEW QUESTION # 16

Which is NOT a built-in memory type in LangChain?

- A. ConversationBufferMemory
- B. ConversationTokenBufferMemory
- C. ConversationSummaryMemory
- **D. ConversationImageMemory**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation=

LangChain includes built-in memory types like ConversationBufferMemory (stores full history), ConversationSummaryMemory (summarizes history), and ConversationTokenBufferMemory (limits by token count)-Options B, C, and D are valid.

ConversationImageMemory (A) isn't a standard type-image handling typically requires custom or multimodal extensions, not a built-in memory class-making A correct as NOT included.

OCI 2025 Generative AI documentation likely lists memory types under LangChain memory management.

NEW QUESTION # 17

Which is NOT a typical use case for LangSmith Evaluators?

- A. Evaluating factual accuracy of outputs
- **B. Aligning code readability**
- C. Detecting bias or toxicity
- D. Measuring coherence of generated text

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

LangSmith Evaluators assess LLM outputs for qualities like coherence (A), factual accuracy (C), and bias/toxicity (D), aiding development and debugging. Aligning code readability (B) pertains to software engineering, not LLM evaluation, making it the odd one out-Option B is correct as NOT a use case. Options A, C, and D align with LangSmith's focus on text quality and ethics.

OCI 2025 Generative AI documentation likely lists LangSmith Evaluator use cases under evaluation tools.

NEW QUESTION # 18

What is the primary purpose of LangSmith Tracing?

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

Answer: B

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,

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