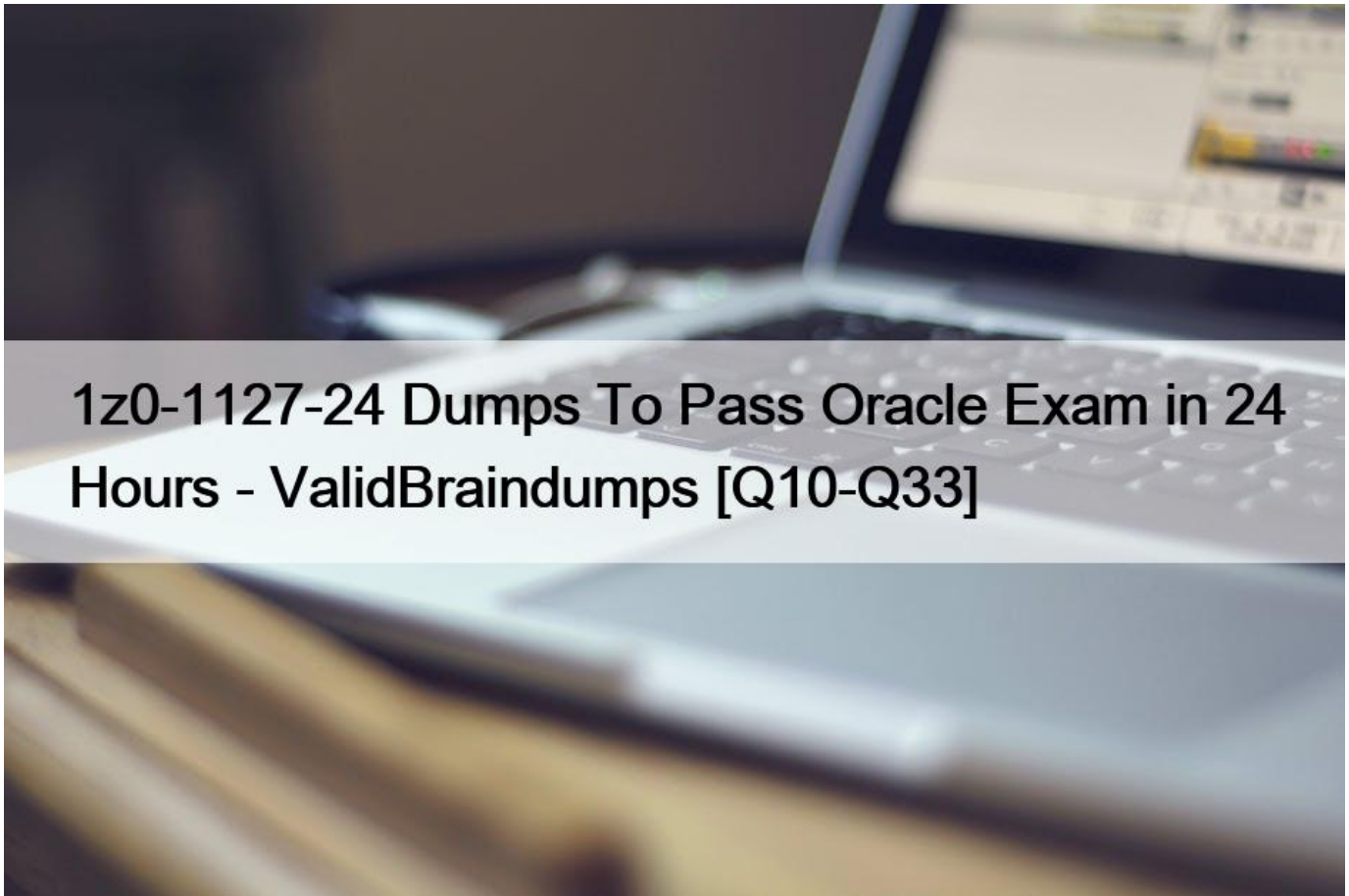


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Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic 1- Fundamentals of Large Language Models (LLMs): This topic discusses LLM architectures and LLM fine-tuning. Additionally, it focuses on prompts for LLMs and fundamentals of code models.
Topic 2- Building an LLM Application with OCI Generative AI Service: The topic discusses Retrieval Augmented Generation (RAG) concepts, vector database concepts, and semantic search concepts. It also focuses on deploying an LLM, tracing and evaluating an LLM, and building an LLM application with RAG and LangChain.
Topic 3- Using OCI Generative AI Service: It covers dedicated AI clusters for fine-tuning and inference. The topic also focuses on fundamentals of OCI Generative AI service, foundational models for Generation, Summarization, and Embedding.

QUESTION 10

Which role does a `“model end point”` serve in the inference workflow of the OCI Generative AI service?

- * Hosts the training data for fine-tuning custom model
- * Evaluates the performance metrics of the custom model
- * Serves as a designated point for user requests and model responses
- * Updates the weights of the base model during the fine-tuning process

QUESTION 11

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

QUESTION 12

Given the following code:

Prompt Template

```
(input_variable[&#8221;human_input&#8221;,&#8217;city&#8221;], template-template)
```

Which statement is true about Prompt Template in relation to input_variables?

- * PromptTemplate requires a minimum of two variables to function property.
- * PromptTemplate can support only a single variable M a time.
- * PromptTemplate supports Any number of variable*, including the possibility of having none.
- * PromptTemplate is unable to use any variables.

QUESTION 13

Given the following prompts used with a Large Language Model, classify each as employing the Chain-of- Thought, Least-to-most, or Step-Back prompting technique.

L Calculate the total number of wheels needed for 3 cars. Cars have 4 wheels each. Then, use the total number of wheels to determine how many sets of wheels we can buy with \$200 if one set (4 wheels) costs \$50.

2. Solve a complex math problem by first identifying the formula needed, and then solve a simpler version of the problem before tackling the full question.

3. To understand the impact of greenhouse gases on climate change, let’s start by defining what greenhouse gases are. Next, well explore how they trap heat in the Earths atmosphere.

- * 1:Step-Back, 2:Chain-of-Thought, 3:Least-to-most
- * 1:Least-to-most, 2 Chain-of-Thought, 3:Step-Back
- * 1:Chain-of-Thought ,2:Step-Back, 3:Least-to most
- * 1:Chain-of-thought, 2: Least-to-most, 3:Step-Back

QUESTION 14

Given the following code: chain = prompt |11m

- * Which statement is true about LangChain Expression language (ICED)?
- * LCEL is a programming language used to write documentation for LangChain.
- * LCEL is a legacy method for creating chains in LangChain
- * LCEL is a declarative and preferred way to compose chains together.

QUESTION 15

What is the primary function of the `temperature` parameter in the OCI Generative AI Generation models?

- * Determines the maximum number of tokens the model can generate per response
- * Specifies a string that tells the model to stop generating more content
- * Assigns a penalty to tokens that have already appeared in the preceding text
- * Controls the randomness of the model's output, affecting its creativity

QUESTION 16

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

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

QUESTION 17

Which is the main characteristic of greedy decoding in the context of language model word prediction?

- * It chooses words randomly from the set of less probable candidates.
- * It requires a large temperature setting to ensure diverse word selection.
- * It selects words based on a flattened distribution over the vocabulary.
- * It picks the most likely word at each step of decoding.

QUESTION 18

How does the integration of a vector database into Retrieval-Augmented Generation (RAG)-based Large Language Models (LLMs) fundamentally alter their responses?

- * It transforms their architecture from a neural network to a traditional database system.
- * It shifts the basis of their responses from pretrained internal knowledge to real-time data retrieval.
- * It enables them to bypass the need for pretraining on large text corpora.
- * It limits their ability to understand and generate natural language.

QUESTION 19

In LangChain, which retriever search type is used to balance between relevancy and diversity?

- * mmr
- * similarity
- * similarity_score_threshold
- * top k

QUESTION 20

What does `Loss` measure in the evaluation of OCI Generative AI fine-tuned models?

The difference between the accuracy of the model at the beginning of training and the accuracy of the deployed model

- * The difference between the accuracy of the model at the beginning of training and the accuracy of the deployed model
- * The percentage of incorrect predictions made by the model compared with the total number of predictions in the evaluation
- * The improvement in accuracy achieved by the model during training on the user-uploaded data set
- * The level of incorrectness in the models predictions, with lower values indicating better performance

QUESTION 21

How do Dot Product and Cosine Distance differ in their application to comparing text embeddings in natural language?

- * Dot Product assesses the overall similarity in content, whereas Cosine Distance measures topical relevance.
- * Dot Product is used for semantic analysis, whereas Cosine Distance is used for syntactic comparisons.
- * Dot Product measures the magnitude and direction vectors, whereas Cosine Distance focuses on the orientation regardless of magnitude.
- * Dot Product calculates the literal overlap of words, whereas Cosine Distance evaluates the stylistic similarity.

QUESTION 22

Which Oracle Accelerated Data Science (ADS) class can be used to deploy a Large Language Model (LLM) application to OCI Data Science model deployment?

- * RetrievalQA
- * Text Leader
- * Chain Deployment
- * GenerativeAI

QUESTION 23

You create a fine-tuning dedicated AI cluster to customize a foundational model with your custom training data. How many unit hours are required for fine-tuning if the cluster is active for 10 hours?

- * 10 unit hours
- * 30 unit hours
- * 15 unit hours
- * 40 unit hours

QUESTION 24

Which component of Retrieval-Augmented Generation (RAG) evaluates and prioritizes the information retrieved by the retrieval system?

- * Retriever
- * Encoder-decoder
- * Ranker
- * Generator

QUESTION 25

Which is a key advantage of using T-Few over Vanilla fine-tuning in the OCI Generative AI service?

- * Reduced model complexity
- * Enhanced generalization to unseen data
- * Increased model interpretability
- * Foster training time and lower cost

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