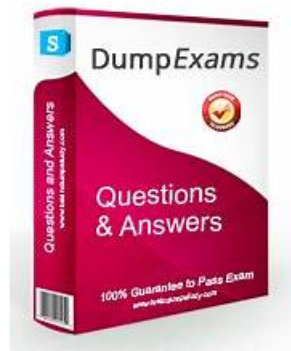


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## Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q23-Q28):

### NEW QUESTION # 23

What does in-context learning in Large Language Models involve?

- **A. Conditioning the model with task-specific instructions or demonstrations**
- B. Pretraining the model on a specific domain
- C. Training the model using reinforcement learning
- D. Adding more layers to the model

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In-context learning is a capability of LLMs where the model adapts to a task by interpreting instructions or examples provided in the input prompt, without additional training. This leverages the model's pre-trained knowledge, making Option C correct. Option A refers to domain-specific pretraining, not in-context learning. Option B involves reinforcement learning, a different training paradigm. Option D pertains to architectural changes, not learning via context.

OCI 2025 Generative AI documentation likely discusses in-context learning in sections on prompt-based customization.

### NEW QUESTION # 24

Accuracy in vector databases contributes to the effectiveness of Large Language Models (LLMs) by preserving a specific type of relationship. What is the nature of these relationships, and why are they crucial for language models?

- A. Hierarchical relationships; important for structuring database queries
- B. Temporal relationships; necessary for predicting future linguistic trends
- **C. Semantic relationships; crucial for understanding context and generating precise language**
- D. Linear relationships; they simplify the modeling process

**Answer: C**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Vector databases store embeddings that preserve semantic relationships (e.g., similarity between "dog" and "puppy") via their positions in high-dimensional space. This accuracy enables LLMs to retrieve contextually relevant data, improving understanding and generation, making Option B correct. Option A (linear) is too vague and unrelated. Option C (hierarchical) applies more to relational databases. Option D (temporal) isn't the focus-semanticity drives LLM performance. Semantic accuracy is vital for meaningful outputs.

OCI 2025 Generative AI documentation likely discusses vector database accuracy under embeddings and RAG.

### NEW QUESTION # 25

How does the temperature setting in a decoding algorithm influence the probability distribution over the vocabulary?

- **A. Increasing temperature flattens the distribution, allowing for more varied word choices.**
- B. Decreasing temperature broadens the distribution, making less likely words more probable.
- C. Temperature has no effect on the probability distribution; it only changes the speed of decoding.
- D. Increasing temperature removes the impact of the most likely word.

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Temperature controls the randomness of an LLM's output by adjusting the softmax probability distribution over the vocabulary.

Increasing temperature (e.g., to 1.5) flattens the distribution, reducing the dominance of high-probability words and allowing more diverse, less predictable choices, making Option C correct. Option A is misleading-higher temperature doesn't remove the top word's impact entirely but reduces its relative likelihood. Option B is incorrect, as decreasing temperature sharpens the distribution,

favoring likely words, not broadening it. Option D is false, as temperature directly affects the distribution, not just decoding speed. This mechanism is key for balancing creativity and coherence.  
OCI 2025 Generative AI documentation likely explains temperature under decoding or output control parameters.

#### NEW QUESTION # 26

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

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

**Answer: D**

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 # 27

Which statement best describes the role of encoder and decoder models in natural language processing?

- A. Encoder models are used only for numerical calculations, whereas decoder models are used to interpret the calculated numerical values back into text.
- B. Encoder models take a sequence of words and predict the next word in the sequence, whereas decoder models convert a sequence of words into a numerical representation.
- C. Encoder models and decoder models both convert sequences of words into vector representations without generating new text.
- **D. Encoder models convert a sequence of words into a vector representation, and decoder models take this vector representation to generate a sequence of words.**

**Answer: D**

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In NLP (e.g., transformers), encoders convert input text into a vector representation (encoding meaning), while decoders generate text from such vectors (e.g., in translation or generation). This makes Option C correct. Option A is false-decoders generate text. Option B reverses roles-encoders don't predict next words, and decoders don't encode. Option D oversimplifies-encoders handle text, not just numbers. This is the foundation of seq2seq models.

OCI 2025 Generative AI documentation likely explains encoder-decoder roles under model architecture.

#### NEW QUESTION # 28

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