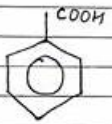


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DATE: _____	EXPT. TITLE: _____	PAGE NO. [2]
EXPT. NO. _____		
<u>EXPERIMENT - 5</u>		
AIM - To purify impure sample of benzoic acid by the process of crystallization.		
<u>THEORY -</u>		
Benzoic acid is a crystalline solid that has moderate solubility in hot water and low solubility in cold water.		
Its structure is:		
		
Benzoic acid is crystallised by dissolving it in hot water.		
<u>REQUIREMENTS -</u>		
Crude sample of benzoic acid, 250ml beakers (2), funnel, a policeman and a trough.		
<u>PROCEDURES -</u>		
① Preparation of solution: take about 150ml of water in a 250ml beaker and keep it for boiling using tripod stand and wire gauge. In another 250 ml beaker take 2-3gm of the crude		

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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"> • 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 3	<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 4	<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.

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Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q77-Q82):

NEW QUESTION # 77

Which is NOT a typical use case for LangSmith Evaluators?

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

Answer: D

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 # 78

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

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

- D. Increasing temperature removes the impact of the most likely word.

Answer: C

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 # 79

In which scenario is soft prompting especially appropriate compared to other training styles?

- A. When the model requires continued pre-training on unlabeled data.
- **B. When there is a need to add learnable parameters to a Large Language Model (LLM) without task-specific training.**
- C. When there is a significant amount of labeled, task-specific data available.
- D. When the model needs to be adapted to perform well in a different domain it was not originally trained on.

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Soft prompting (e.g., prompt tuning) involves adding trainable parameters (soft prompts) to an LLM's input while keeping the model's weights frozen, adapting it to tasks without task-specific retraining. This is efficient when fine-tuning or large datasets aren't feasible, making Option C correct. Option A suits full fine-tuning, not soft prompting, which avoids extensive labeled data needs. Option B could apply, but domain adaptation often requires more than soft prompting (e.g., fine-tuning). Option D describes continued pretraining, not soft prompting. Soft prompting excels in low-resource customization.

OCI 2025 Generative AI documentation likely discusses soft prompting under parameter-efficient methods.

NEW QUESTION # 80

When is fine-tuning an appropriate method for customizing a Large Language Model (LLM)?

- **A. When the LLM does not perform well on a task and the data for prompt engineering is too large**
- B. When the LLM already understands the topics necessary for text generation
- C. When the LLM requires access to the latest data for generating outputs
- D. When you want to optimize the model without any instructions

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Fine-tuning is suitable when an LLM underperforms on a specific task and prompt engineering alone isn't feasible due to large, task-specific data that can't be efficiently included in prompts. This adjusts the model's weights, making Option B correct. Option A suggests no customization is needed. Option C favors RAG for latest data, not fine-tuning. Option D is vague-fine-tuning requires data and goals, not just optimization without direction. Fine-tuning excels with substantial task-specific data.

OCI 2025 Generative AI documentation likely outlines fine-tuning use cases under customization strategies.

NEW QUESTION # 81

Which LangChain component is responsible for generating the linguistic output in a chatbot system?

- A. Document Loaders
- B. Vector Stores
- C. LangChain Application
- **D. LLMs**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In LangChain, LLMs (Large Language Models) generate the linguistic output (text responses) in a chatbot system, leveraging their pre-trained capabilities. This makes Option D correct. Option A (Document Loaders) ingests data, not generates text. Option B (Vector Stores) manages embeddings for retrieval, not generation. Option C (LangChain Application) is too vague-it's the system, not a specific component. LLMs are the core text-producing engine.

OCI 2025 Generative AI documentation likely identifies LLMs as the generation component in LangChain.

NEW QUESTION # 82

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