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Sample Questions AP Calculus AB/BC Exam

AP Calculus AB Sample Exam Questions

Multiple Choice: Section I, Part A
A calculator may not be used on questions on this part of the exam.

1. $\lim_{x \rightarrow \pi} \frac{\cos x + \sin(2x) + 1}{x^2 - \pi^2}$ is

(A) $\frac{1}{2\pi}$
(B) $\frac{1}{\pi}$
(C) 1
(D) nonexistent

Learning Objectives	Essential Knowledge	Mathematical Practices for AP Calculus
LO 1.1C: Determine limits of functions.	EK 1.1C: Limits of the indeterminate forms $\frac{0}{0}$ and $\frac{\infty}{\infty}$ may be evaluated using L'Hospital's Rule.	MPAC 1: Reasoning with definitions and theorems
LO 2.1C: Calculate derivatives.	EK 2.1C: Specific rules can be used to calculate derivatives for classes of functions, including polynomial, rational, power, exponential, logarithmic, trigonometric, and inverse trigonometric.	MPAC 3: Implementing algebraic/computational processes

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Microsoft Agentic AI Business Solutions Architect Sample Questions (Q84-Q89):

NEW QUESTION # 84

A company has Microsoft Power Platform development staging, and production environments. Each environment has its own Microsoft Dataverse tables and Azure AI Search index.

You are designing an application lifecycle management (ALM) process to deploy a Microsoft Copilot Studio agent between the environments.

The company has a Copilot Studio agent named Agent1 in development. Agent1 uses the following grounding data sources:

- * A Dataverse table named CustomerOrders
- * An Azure AI Search index named customer-knowledge

You need to deploy Agent1 to production. The solution must ensure that the agent uses the production grounding data sources, minimizes downtime, and handles credentials and endpoints securely.

What should you include in the deployment package solution, and what should you reconfigure after the deployment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

In a proper ALM deployment for Microsoft Copilot Studio across development, staging, and production, you should package the agent in a way that is portable across environments while avoiding hardcoded endpoints, indexes, table targets, or credentials.

Here, Agent1 uses:

- * a Dataverse table: CustomerOrders
- * an Azure AI Search index: customer-knowledge

Because each environment has its own Dataverse tables and Azure AI Search index, the deployment package should not carry over the development environment's live connections as fixed production settings. Instead, it should carry the agent and the references needed so the target environment can bind to its own production resources.

That is why the correct recommendation is:

- * Deployment package: Agent1 and references to the data sources
- * After deployment: Reconfigure the environment variables

Why this is correct:

- * Environment variables are the standard ALM-friendly way to externalize settings like:
 - * endpoints
 - * index names
 - * table references
 - * connection-related values
- * This supports secure handling of credentials and endpoints
- * It also helps minimize downtime, because production values can be switched cleanly after import without rebuilding the agent
- Why the other choices are weaker:
 - * Agent1 only would omit needed source references
 - * The data sources only would not deploy the actual agent
 - * Agent1 and the data source connections risks carrying environment-specific connection bindings
 - * Agent1, the data sources, and the data source connections is too tightly coupled to the source environment and is not the best ALM design for secure cross-environment deployment
 - * Reconfiguring only Dataverse or only Azure AI Search is incomplete because both can vary by environment
 - * Reconfiguring Agent1 configuration is broader and less precise than using environment variables

NEW QUESTION # 85

A company has a cloud-based AI solution that uses Azure OpenAI models.

You need to design a monitoring solution that meets the following requirements:

- * Monitors performance metrics and operational health for the models

- * Monitors AI apps and agents for compliance
- * Uses Azure-native capabilities
- * Minimizes development effort

What should you use for each requirement? To answer, drag the appropriate options to the correct requirements. Each option may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Verified Answer :=

- * Monitors AI app and agents for compliance # Microsoft Purview
- * Monitors performance metrics and operational health # Azure Monitor

For an Azure-based AI solution using Azure OpenAI models , the best Azure-native monitoring design is to separate:

- * operational and performance monitoring
- * compliance and governance monitoring

For performance metrics and operational health , the correct choice is Azure Monitor . It is the standard Azure-native service for collecting telemetry, tracking service health, monitoring metrics, analyzing logs, and alerting on runtime issues. This is the best fit for model and application operational monitoring with minimal development effort.

For monitoring AI apps and agents for compliance , the correct choice is Microsoft Purview . Purview is designed for compliance, governance, data protection, and policy-based oversight across data and AI-related assets. It aligns best with the requirement to monitor AI applications and agents from a compliance perspective.

Why the other options are not the best fit:

- * Azure API Management is for API exposure, management, and security, not primary compliance or operational monitoring.
- * Azure Policy is used to enforce and assess Azure resource compliance, but it is not the main tool for monitoring AI apps and agents in the broader compliance/governance sense asked here.
- * Azure Stream Analytics is for streaming data processing, not this monitoring scenario.
- * Microsoft Defender is focused on security threat detection and posture, not overall AI compliance monitoring.

NEW QUESTION # 86

You are designing a testing solution for Microsoft Copilot Studio agents.

You need to validate prompt engineering best practices to ensure that the agents generate accurate and contextually relevant responses. Which prompt validation techniques and metrics should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

To validate prompt engineering for Microsoft Copilot Studio agents , the goal is to confirm that the agent responds correctly even when users ask the same thing in different ways, and to measure whether the responses are actually useful and correct.

For the prompt validation technique , the correct choice is Use prompts that have varied phrasing . This is a core best practice because real users do not ask questions in one fixed form. They may use different wording, sentence structure, synonyms, or levels of detail. Testing with varied phrasing checks whether the prompt design is robust and whether the agent can still produce the right response across natural language variation.

For the metric , the correct choice is Response relevance and accuracy . Since the requirement is to ensure responses are accurate and contextually relevant , this is the most appropriate measure. It directly evaluates whether the output answers the user's need correctly and in the right context.

Why the other options are not correct:

- * Exclude domain-specific terminology from the prompts is not a best practice in business AI solutions. In many enterprise scenarios, domain-specific terms are essential for accuracy.
- * Use only simple, one-word prompts does not reflect real-world usage and would weaken testing coverage.
- * The number of words generated per response does not tell you whether the response is correct or contextually appropriate.
- * The response generation time is a performance metric, not the best metric for validating prompt quality.

NEW QUESTION # 87

A company has an AI business solution that uses Microsoft Copilot Studio agents. You need to recommend prompt best practices to improve the effectiveness of agent interactions. Which two actions should you include in the recommendation? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Track the duration of the average user session.
- **B. Regularly test and refine the prompts based on user input.**
- C. Analyze the prompt length distribution.
- **D. Use clear and specific instructions in the prompts.**
- E. Measure system resource usage during prompt processing.

Answer: B,D

Explanation:

For Microsoft Copilot Studio agents, effective prompting depends on giving the model strong guidance and continuously improving that guidance from real interactions.

C). Use clear and specific instructions in the prompts is correct because well-written prompts reduce ambiguity, improve intent interpretation, and make the agent's behavior more reliable and consistent.

D). Regularly test and refine the prompts based on user input is also correct because prompt quality improves through iteration. Reviewing how users actually interact with the agent helps identify unclear wording, missing instructions, and failure cases.

Why the others are not correct:

* A. Measure system resource usage during prompt processing is an operations/performance activity, not a prompt best practice.

* B. Analyze the prompt length distribution may be interesting analytically, but it is not a primary best practice for improving agent interactions.

* E. Track the duration of the average user session is a usage metric, not a prompt-engineering best practice.

NEW QUESTION # 88

You need to design a Microsoft 365 Copilot solution to optimize employee productivity. The solution must meet the following requirements:

- Ensure that the employees can query content stored in a subset of Microsoft SharePoint Online sites and in Teams by using natural language-based prompt actions.
- Ensure that employees receive contextually relevant responses in Microsoft 365 Copilot.

What should you include in the design?

- A. Build a Microsoft Power Automate desktop flow to read the SharePoint content and post the responses to Teams.
- **B. Configure Microsoft Graph access.**
- C. Create a custom REST API that crawls the SharePoint content.
- D. Modify SharePoint settings.

Answer: B

Explanation:

To enable Microsoft 365 Copilot to query a specific subset of SharePoint Online and Teams content using natural language, you can implement a combination of Restricted SharePoint Search and Microsoft Graph Connectors.

1. Restricting Content Access

You can limit the scope of data Copilot searches by using features that control which sites are indexed or accessible.

2. Configuring Microsoft Graph Access

Microsoft Graph acts as the bridge connecting Copilot to your organizational data. To integrate specific sources.

3. Enabling Prompt Actions & Context

Declarative Agents: You can create specialized Copilot Agents grounded in specific SharePoint knowledge sources. These agents use natural language instructions to focus on a subset of data for more contextually relevant responses.

Direct Referencing: Users can improve response relevance by explicitly naming files, folders, or Teams channels in their natural language prompts (e.g., "Summarize notes from the 'Product Launch' channel").

Reference:

<https://nboldapp.com/advanced-microsoft-365-copilot-techniques-prompting-grounding-and-automation/>

NEW QUESTION # 89

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