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Microsoft Developing AI Apps and Agents on Azure Sample Questions (Q46-Q51):

NEW QUESTION # 46

You have a Microsoft Foundry project that contains a workflow for a customer support triage process.

You have an Ask a question node that stores user responses in a local variable named Var01.

You need to create the following Power Fx expressions:

* An if/else condition expression that ensures that Var01 contains a value

* A Send message expression that returns the stored user response in uppercase How should you configure the expressions? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

If/else condition expression:

- IsBlank(Local.Var01)
- IsEmpty(Local.Var01)
- Not(IsBlank(Local.Var01))



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Send message expression:

- {Local.Var01}
- {Upper(Local.Var01)}
- {Upper(Var01)}

Answer:

Explanation:

If/else condition expression:

- IsBlank(Local.Var01)
- IsEmpty(Local.Var01)
- Not(IsBlank(Local.Var01))

Send message expression:

- {Local.Var01}
- {Upper(Local.Var01)}
- {Upper(Var01)}



Explanation:

If/else condition expression: Not(IsBlank(Local.Var01))

Send message expression: {Upper(Local.Var01)}

The correct if/else condition is Not(IsBlank(Local.Var01)) because the workflow must continue only when the Ask a question node has captured a nonblank value. In Power Fx, IsBlank checks whether a value is blank, while Not reverses that Boolean result; therefore, Not(IsBlank(Local.Var01)) evaluates to true only when Var01 contains user input. IsEmpty(Local.Var01) is not the correct choice because IsEmpty checks whether a table contains records, not whether a text variable has a value. The Power Fx formula reference distinguishes these functions by defining IsBlank for blank values and IsEmpty for empty tables.

The Send message expression must be {Upper(Local.Var01)}. Microsoft Foundry workflow guidance uses the same pattern for an Ask a question node saved as Var01, followed by a Send message action that outputs {Upper(Local.Var01)}. The Local. prefix is required because the response is stored in a local workflow variable, and Upper() converts the stored text response to uppercase. Reference topics: Microsoft Foundry workflows, Power Fx expressions, local variables, if/else branching, and Send message actions.

NEW QUESTION # 47

You need to configure an indexing pipeline for Agent1 to retrieve the relevant product information in storage1. The solution must meet the technical requirement.

Which two built-in skills should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Language Detection
- **B. Text Split**
- C. key phrase extraction
- **D. Azure OpenAI Embedding**
- E. Merge
- F. Entity Recognition

Answer: B,D

Explanation:

The correct built-in skills are Azure OpenAI Embedding and Text Split. The case study requires an indexing pipeline that enables semantic and vector search over the product sheets stored in Azure Blob Storage, so Agent1 can retrieve relevant product information for natural language customer questions. For a RAG pipeline, long PDF content must first be broken into retrievable chunks, and each chunk must then be vectorized for semantic similarity retrieval.

Microsoft's Azure AI Search integrated vectorization guidance states that you create a skillset that calls the Text Split skill for chunking and the Azure OpenAI Embedding skill to vectorize the chunks. The Text Split skill breaks text into chunks and provides positional metadata, making it suitable when downstream embedding skills have input-length limits. The Azure OpenAI Embedding skill connects to an embedding model deployed in Azure OpenAI or a Microsoft Foundry project and generates embeddings during indexing.

Language Detection, Entity Recognition, and key phrase extraction can enrich text, but they do not create vector embeddings. Merge is useful for combining OCR text with document text, but it does not satisfy the core vector-search requirement. Reference topics: Azure AI Search skillsets, Text Split skill, Azure OpenAI Embedding skill, integrated vectorization, and RAG indexing.

NEW QUESTION # 48

You have a Microsoft Foundry project that ingests scanned PDF invoices stored in Azure Blob Storage. Each invoice contains printed line items and has a table-based layout.

Extracted results are stored as structured JSON and used as grounding data for an agent in a Retrieval Augmented Generation (RAG) solution.

You need to create a single analyzer that meets the following requirements:

* Extracts the invoice number, invoice date, vendor name, and total amount across varying templates

* Returns confidence scores so that results with confidence below 0.80 can be routed for supervisor review What should you use?

- A. the Azure Content Understanding in Foundry Tools prebuilt-layout analyzer
- B. a Foundry agent that has groundedness guardrails enabled to extract invoice fields and confidence scores
- **C. a custom Azure Content Understanding in Foundry Tools analyzer that defines the required fields as the extracted fields and the returned confidence scores for routing**
- D. the Azure Content Understanding in Foundry Tools prebuilt-documentSearch analyzer and search.score from the Azure AI Search results for routing

Answer: C

Explanation:

The correct answer is C because the requirement is structured field extraction from invoices across varying templates, not only OCR or layout preservation. Azure Content Understanding analyzers are reusable configurations that combine content extraction, AI-powered analysis, and structured data output, and Microsoft states that custom analyzers can be created for specific extraction needs. In this case, the analyzer schema should define fields such as invoice number, invoice date, vendor name, and total amount so the output can be returned as structured JSON for downstream RAG grounding.

The confidence-routing requirement also points to Content Understanding field confidence scores. Microsoft documentation states that every field can include a confidence score from 0 to 1, and that confidence scores can be used to automate high-confidence results while routing low-confidence results for human review. A threshold such as 0.80 is therefore an application routing rule based on the returned field confidence. The prebuilt-layout analyzer preserves layout but does not define invoice-specific business fields. Groundedness guardrails evaluate generated answers, not invoice field extraction. Azure AI Search search.score measures retrieval relevance, not extraction confidence. Reference topics: Content Understanding custom analyzers, document field extraction, structured JSON output, confidence scoring, and RAG grounding.

NEW QUESTION # 49

You have a Microsoft Foundry project that contains an agent. The agent generates summaries from retrieved policy documents.

You need to improve response completeness. The solution must be implemented in the logic of the application code before responses are returned.

What should you do?

- A. Enable response streaming.
- **B. Add a reflection pass before the responses are returned.**
- C. Switch to Retrieval Augmented Generation (RAG).
- D. Decrease the value of the temperature parameter.

Answer: B

Explanation:

The correct answer is B. Add a reflection pass before the responses are returned . A reflection pass is an application-orchestration step in which the generated summary is reviewed before final delivery, typically by asking the model or an evaluator step to check whether the answer covers the retrieved policy evidence and to revise the response when important details are missing. This directly addresses response completeness in application logic before the response is returned. The Microsoft Learn study guide explicitly includes Implement model reflection and Apply prompt engineering techniques to improve responses under optimization and operationalization of generative AI solutions.

This is also consistent with Microsoft Foundry agentic-loop guidance, which identifies reflection and planning cycles as patterns for multi-step reasoning in production agent systems. Completeness is a response-quality property. Azure AI evaluation defines completeness as whether a response contains all necessary and relevant information with respect to ground truth.

Option C is not correct because the scenario already says the agent generates summaries from retrieved policy documents, which is already a grounded retrieval pattern. Option A mainly reduces randomness, not missing content. Option D improves delivery experience, not answer completeness. Reference topics: model reflection, prompt engineering, agentic loops, response evaluation, and grounded generative AI solutions.

NEW QUESTION # 50

You have an application named App1 that uses Azure Speech in Foundry Tools to transcribe live calls.

Transcript segments often contain both English and Spanish. App1 sends each segment to Azure Translator in Foundry Tools to translate to another language.

Sometimes, mixed-language segments result in incomplete or incorrect translations.

You need to reduce translation errors. The solution must ensure that the entire transcript is translated successfully.

What should you do before sending the segments to Translator?

- A. Enable automatic language detection for the translation request.
- B. Use document translation to translate the entire transcript as a single document.
- **C. Split the mixed-language segments into single-language segments and translate each segment separately.**
- D. Specify English as the source language in the translation request for all the segments.

Answer: C

Explanation:

The correct answer is C. Split the mixed-language segments into single-language segments and translate each segment separately . Azure Translator has a known limitation for text that contains mixed-language input within the same sentence or segment. Microsoft's Translator known-issues guidance states that the Text translation API does not support translating sentences that contain mixed-language text and that translations can be incorrect or incomplete when a single sentence includes multiple languages. The documented workaround is to specify the intended source language, remove the mixed-language sentence, or split the text into single-language segments.

In this scenario, specifying English for all segments would fail when Spanish content is present. Automatic language detection can detect a dominant language, but it does not reliably solve a segment that contains both English and Spanish. Document translation is also not the right fix because the issue is mixed-language content inside transcript segments, and Microsoft notes similar incomplete results for mixed-source-language documents. Splitting the transcript into language-homogeneous segments ensures each translation request has a clear source language and lets the entire transcript be translated reliably. Reference topics: Azure Translator in Foundry Tools, text translation, language detection, mixed-language input, and transcript preprocessing.

NEW QUESTION # 51

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