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## Microsoft Developing AI Apps and Agents on Azure Sample Questions (Q24-Q29):

### NEW QUESTION # 24

You have a Microsoft Foundry project that contains an agent and an image generation model deployment.

The agent generates original images from user-supplied product photos.

You need to ensure that the generated images maintain the product identity and visual characteristics of the provided photo.

What should you do?

- A. Include a prompt and input image in the request.
- B. Decrease the value of the temperature parameter.
- C. Apply a groundedness detection filter.
- **D. Set the `input_fidelity` parameter to high.**

**Answer: D**

Explanation:

The correct answer is A. Set the `input_fidelity` parameter to high . The scenario requires the generated image to preserve the identity

and visual characteristics of the user-supplied product photo. In Azure OpenAI image editing and generation workflows, input\_fidelity controls how strongly the model attempts to match the style and features of the input image. Microsoft's documentation states that this parameter lets you make subtle edits without changing unrelated areas, and that high input fidelity preserves input-image features more accurately than standard mode.

Including a prompt and input image is necessary for image-guided generation, but it does not by itself maximize preservation of the product's appearance. The explicit preservation control is input\_fidelity, and the requirement specifically asks to maintain product identity and visual characteristics. A groundedness detection filter applies to validating generated text against source data, not preserving visual features in image generation. Lowering temperature may reduce randomness in text generation, but it is not the image-control parameter used to retain product-specific visual details. Reference topics: Azure OpenAI image generation, image edit API, input images, input\_fidelity, image-to-image generation, and visual identity preservation.

### NEW QUESTION # 25

Note: This section contains one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem. You must determine whether the solution meets the stated goals. More than one solution in the set might solve the problem. It is also possible that none of the solutions in the set solve the problem.

After you answer a question in this section, you will NOT be able to return. As a result, these questions do not appear on the Review Screen.

You have a multimodal AI generative model that accepts image uploads and uses extracted image text to generate responses.

You discover that users can upload unsafe images and embed hidden instructions into images to manipulate the model.

You need to implement controls to mitigate the risk.

Solution: You configure a prompt shield for documents.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

Explanation:

The solution does not fully meet the goal. A prompt shield for documents is the correct control for the embedded-instruction portion of the scenario. Microsoft defines Prompt Shields as protection against prompt manipulation, including attacks embedded in third-party or document-like content that is supplied to a generative model. OCR-extracted text from uploaded images is untrusted contextual content, so document attack protection is appropriate for detecting hidden instructions that attempt to override the model's intended behavior.

However, the scenario contains two separate risks: unsafe image uploads and hidden instructions embedded in images. Prompt Shields for documents address indirect prompt injection, but they do not classify or block harmful visual content in the uploaded image itself. Azure AI Content Safety image moderation is the control that scans images for harmful content categories such as sexual content, violence, hate, and self-harm with severity levels that can be used for blocking decisions.

Therefore, document prompt shielding alone is incomplete. A complete mitigation would combine image moderation for unsafe images with Prompt Shields for document attacks, and optionally Spotighting for lower-trust third-party content. Reference topics: Content Safety image moderation, Prompt Shields, document attacks, indirect prompt injection, and multimodal safety.

### NEW QUESTION # 26

You have a Python application named App1 that integrates with a Microsoft Foundry project named Project1.

You need to ensure that App1 meets the following requirements:

\* Authenticates by using a Microsoft Entra managed identity

\* Sends prompts to a deployed model by using the Azure OpenAI Responses API How should you complete the Python code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```

from azure.identity import DefaultAzureCredential
from azure.ai.projects import AIProjectClient

credential =  ()
    AzureKeyCredential
    ClientSecretCredential
    DefaultAzureCredential

project_client = AIProjectClient(
    endpoint="https://contosoai.services.ai.azure.com/api/projects/project1",
    credential=credential,
)

with project_client.get_openai_client() as openai_client:
    response = openai_client.responses.  (
        compact
        create
        retrieve

    model="trail-guide-chat",
    input="Create a 3-day hiking itinerary near Seattle.",
)

print(response.output_text)

```

**Answer:**

**Explanation:**

```

from azure.identity import DefaultAzureCredential
from azure.ai.projects import AIProjectClient

credential =  ()
    AzureKeyCredential
    ClientSecretCredential
    DefaultAzureCredential

project_client = AIProjectClient(
    endpoint="https://contosoai.services.ai.azure.com/api/projects/project1",
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        create
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    model="trail-guide-chat",
    input="Create a 3-day hiking itinerary near Seattle.",
)

print(response.output_text)

```

**Explanation:**

credential = DefaultAzureCredential

```
response = openai_client.responses.create
```

The correct authentication class is `DefaultAzureCredential` because the requirement is Microsoft Entra-based authentication, and this credential supports managed identity in hosted Azure environments. The Microsoft Foundry quickstart for Python shows the project client being created with `AIProjectClient` (`endpoint=PROJECT_ENDPOINT, credential=DefaultAzureCredential()`), which enables the Foundry SDK to authenticate without using API keys or embedded secrets. The same guidance shows creating an OpenAI-compatible client from the project by calling `project.get_openai_client()`.

The correct Responses API method is `create` because the application must send a new prompt to the deployed model and receive generated output. Microsoft's Foundry quickstart demonstrates the exact pattern: `response`

```
= openai.responses.create(model="gpt-5-mini", input="..."),
```

 followed by reading `response.output_text`.

The `retrieve` operation is used to fetch an existing response, not submit a new inference request, and `compact` is not the correct method for generating a model response. `AzureKeyCredential` would violate the Microsoft Entra managed identity requirement, while `ClientSecretCredential` uses an application secret rather than managed identity. Reference topics: Microsoft Foundry SDK, `AIProjectClient`, Microsoft Entra authentication, `DefaultAzureCredential`, and Azure OpenAI Responses API.

### NEW QUESTION # 27

You have a Microsoft Foundry project named `Project1`.

`Project1` contains an application that processes PDF vendor invoices.

You need to configure Azure Document Intelligence in Foundry Tools to generate a Markdown output that preserves the sections and table structure of the PDFs. The solution must minimize development effort.

What should you do?

- A. Configure `output=figures` when you analyze the PDF.
- B. Increase the confidence threshold.
- C. Set the `output_content_format=ContentFormat.MARKDOWN` value.
- D. Configure `content=markdown` when you analyze the document.

**Answer: C**

Explanation:

The correct answer is D. Set the `output_content_format=ContentFormat.MARKDOWN` value. Azure Document Intelligence Layout API can return extracted document content in Markdown format, preserving semantic structure such as headings, paragraphs, sections, tables, and other layout elements. Microsoft's Document Intelligence layout guidance shows the Python SDK pattern for analyzing a document with the prebuilt-layout model and setting `output_content_format=ContentFormat.MARKDOWN` in the `begin_analyze_document` call. The Markdown output is returned in the top-level `content` section of the analysis result. This minimizes development effort because the service produces structure-preserving Markdown directly, rather than requiring custom post-processing to reconstruct sections and table formatting from raw OCR spans. Microsoft's Markdown output documentation states that specifying Markdown output produces semantically structured content that maintains paragraphs, headings, tables, and other document elements in their proper hierarchy. Option A only changes validation behavior and does not generate Markdown. Option B requests figures, not structured Markdown. Option C uses an incorrect parameter name; the documented SDK setting is `output_content_format`, not `content`. Reference topics: Azure Document Intelligence Layout API, Markdown output, PDF analysis, table extraction, and Foundry Tools document processing.

### NEW QUESTION # 28

You have a Microsoft Foundry project that contains an agent.

The agent uses a knowledge source built from documents stored in Azure Blob Storage. The documents include digitally scanned PDFs that contain multipage tables.

You have an ingestion job that extracts only plain text, causing loss of table structure, headings, and page-number metadata.

Users frequently ask questions that require the retrieval of specific table rows across the pages.

You need to configure an ingestion job for a Retrieval Augmented Generation (RAG) pipeline that performs optical character recognition (OCR) on scanned PDFs, preserves tables and headings as structure-aware chunks, and stores page-number metadata with each chunk.

How should you configure the ingestion job?

- A. Use advanced data parsing to reingest the documents.
- B. Use OCR and page-level chunking.
- C. Use basic parsing and fixed-size chunking.
- D. Use page-level OCR extraction and store each page as a single chunk.

**Answer: A**

Explanation:

The correct configuration is advanced data parsing because the issue is not merely OCR; the ingestion job must preserve document structure for reliable RAG retrieval. Microsoft guidance for advanced parsing states that it automatically detects tables across all pages, including tables in scanned documents, merges tables that span multiple pages, restores column headers, and creates table chunks with metadata such as table index, shape, page numbers, section headings, and table previews. This directly satisfies the requirement to retrieve specific rows from multipage tables while retaining source-page context.

Basic parsing with fixed-size chunking would flatten the document into arbitrary text fragments, which is the current failure mode.

OCR with page-level chunking improves text extraction from scanned PDFs, but it does not provide structure-aware chunks that preserve headings and table relationships across pages. Storing each page as a single chunk is too coarse for row-level retrieval and can bury relevant table rows in excessive context. Advanced data parsing is purpose-built for RAG ingestion because it produces semantically meaningful, retrievable chunks and enriches them with metadata needed for citations and grounding.

Reference topics: RAG ingestion, advanced parsing, OCR, table extraction, structure-aware chunking, page metadata, and Azure Blob Storage document ingestion.

## NEW QUESTION # 29

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







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