

PRACTICE QUESTIONS

Microsoft

AI-103

Azure AI Apps and Agents Developer Associate

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EDITION	Free Set 1
QUESTIONS	10
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EXAM	Microsoft AI-103, Azure AI Apps and Agents Developer Associate

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10 practice questions for the Microsoft AI - 103 exam, Azure AI Apps and Agents Developer Associate, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. A contact center wants to transcribe recorded calls and show the speaker's words in near real time. Which Azure AI service should it use?

- A Azure AI Speech speech-to-text
- B Azure AI Language sentiment analysis
- C Azure AI Vision OCR
- D Azure AI Translator text translation

Answer: A

Speech to text converts audio into text and supports streaming for near real-time results. Sentiment analysis is the tempting follow-on, but it needs text that already exists and does not produce a transcript. OCR and text translation do not process audio at all.

2. In Azure AI Search, a _____ ranker reorders the initial keyword or hybrid results using a deep learning model.

Answer: semantic (also accepted: semantic ranker)

The semantic ranker is an optional Azure AI Search feature that re-scores the top results for meaning. Vector search is the tempting term, but it retrieves candidates by embedding similarity rather than reordering them. A scoring profile adjusts ranking with weights you define, not with a learned model.

3. An app sends user prompts to a generative model and must block harmful content in both prompts and responses. Which service provides this capability?

- A Azure Key Vault
- B Azure Monitor alerts
- C Azure AI Content Safety
- D Microsoft Entra ID

Answer: C

Azure AI Content Safety scores text for harm categories such as hate, sexual, violence, and self-harm, with severity levels, and includes Prompt Shields for injection attacks. Key Vault is the tempting answer for anything labeled security, but it stores secrets and does not moderate content. Entra ID handles identity, and Monitor handles telemetry.

4. Foundry Agent Service executes the code of your custom function tool on the Foundry platform itself, so your application does not need to run it.
- A True
 - B False

Answer: B (False)

Custom function tools return a request that your application must execute, and the service then receives the result. Treating a function tool as a hosted function is the tempting mistake, because the tool definition looks like a deployed service.

5. Which two signals are most useful for monitoring a deployed generative AI app in production? (Choose two.)
- A Color theme chosen in the chat widget
 - B Groundedness score on sampled production traffic
 - C Size in megabytes of the model weights file
 - D Number of commits merged to the main branch
 - E Latency and error rate from traces

Answer: B, E

Sampled groundedness scores show quality drift in real traffic, and latency and error rates from traces show reliability. Model weight size is the tempting technical detail, but the weights are not something you monitor at runtime for an API-based deployment. Commit counts and widget colors say nothing about how the app behaves.

6. Which Foundry Agent Service concept stores the message history for one ongoing conversation, so later turns can see earlier ones?
- A Deployment
 - B Thread
 - C Index
 - D Evaluator

Answer: B

A thread holds the messages exchanged in one conversation, and each run reads that history. A deployment names the model the agent calls, which is the tempting mix-up because it is the first thing a developer configures. An index stores searchable content, and an evaluator scores outputs.

7. Which access setup best applies least privilege for an app that only needs to read documents from one Azure Storage container?
- A Assign the storage account Owner role to the app identity
 - B Share the storage account key with every developer
 - C Grant Contributor on the entire subscription
 - D Assign Storage Blob Data Reader scoped to that container

Answer: D

A Storage Blob Data Reader role at container scope grants read access to only the data the app needs. The account key is the tempting shortcut, but it grants full access to every container in the account. Owner and subscription-level Contributor are far broader than the scenario requires.

8. The vector field in an Azure AI Search index must declare the same number of _____ as the output of the embedding model.

Answer: dimensions (also accepted: dims)

A mismatch between the declared dimensions and the embedding length causes indexing or query errors. The vector profile name is the tempting thing to check, but it only identifies a configuration and does not set the length. Always confirm the dimensions against the model card for the deployed embedding model.

9. A web app must answer questions about a fixed set of FAQs without using a generative model. Which Azure AI Language feature fits best?
- A Question answering from a knowledge base
 - B Named entity recognition
 - C Speaker recognition
 - D Text-to-speech

Answer: A

Question answering matches user questions to curated question and answer pairs in a knowledge base. Named entity recognition is the tempting choice because it also works on text, but it extracts people, places, and organizations rather than answering questions. Speaker recognition and text-to-speech are Speech capabilities unrelated to FAQs.

10. A company must store an API key for an Azure AI resource, let the app retrieve it at runtime, and log every access. Which service is the best fit?
- A Azure Storage queue
 - B Azure Cache for Redis
 - C Azure Key Vault
 - D Azure Front Door

Answer: C

Key Vault stores secrets, controls access with RBAC or access policies, and writes diagnostic logs of secret reads. Azure Cache for Redis is the tempting option for fast lookups of configuration, but it is not an audited secrets store. Queues and Front Door do not hold secrets for applications.