

Microsoft

Exam Questions AI-901

Microsoft Azure AI Fundamentals (Updated Version)



NEW QUESTION 1

You need to convert written customer notifications into natural-sounding spoken audio that can be played over a phone system. Which Azure Speech in Foundry Tools capability should you use?

- A. speaker recognition
- B. speech synthesis
- C. speech recognition
- D. speech translation

Answer: B

Explanation:

The requirement is to convert written customer notifications into natural-sounding spoken audio. This is speech synthesis, also known as text to speech. Microsoft's Azure Speech documentation describes text to speech as a capability that converts text into natural-sounding synthesized speech. Therefore, for playing written notifications over a phone system, the correct Azure Speech capability is speech synthesis.

Why the other options are incorrect:

- * A. speaker recognition identifies or verifies speakers by voice.
- * C. speech recognition converts spoken audio into text.
- * D. speech translation translates spoken audio between languages.

NEW QUESTION 2

What are two purposes of instructions when prompting a generative AI model? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

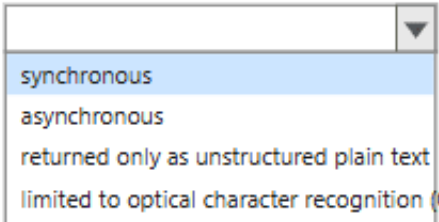
- A. defines constraints on the model's responses
- B. defines the agent's role and behavior
- C. defines the Azure region where inference occurs
- D. selects which model to use
- E. defines the tokens per minute (TPM) allocation for the model

Answer: AB

NEW QUESTION 3

HOTSPOT

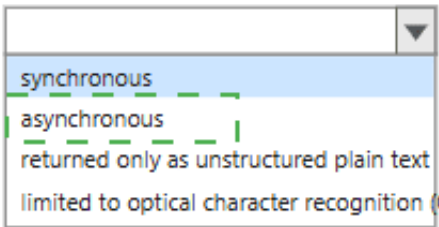
Select the answer that correctly completes the sentence.

When content is submitted to Azure Content Understanding in Foundry Tools, the analysis is .

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

When content is submitted to Azure Content Understanding in Foundry Tools, the analysis is .

NEW QUESTION 4

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
System prompts can be used to authorize users.	☐	☐
A system prompt is used to reduce tokens per minute (TPM).	☐	☐
A system prompt guides the behavior of a generative AI model.	☐	☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A system prompt, also called a system message, is used to guide how a generative AI model behaves, including its tone, role, response style, and output format. Microsoft states that system messages help steer an Azure OpenAI chat model toward the desired behavior, tone, and output format.

Statement 1: System prompts can be used to authorize users. = No
Authorization is handled by application identity, access control, authentication, and security configuration. A system prompt can guide model behavior, but it is not an authorization mechanism.

Statement 2: A system prompt is used to reduce tokens per minute (TPM). = No
TPM is a quota or throughput setting for model deployments. A system prompt does not reduce or configure TPM.

Statement 3: A system prompt guides the behavior of a generative AI model. = Yes
This is correct. Microsoft documentation says system messages help steer the model's behavior, tone, and output format.

NEW QUESTION 5

You need to build an AI solution that generates marketing email drafts based on a short description of a product and its target audience. Which AI workload should you use?

- A. generative AI
- B. computer vision
- C. text classification
- D. speech recognition

Answer: A

NEW QUESTION 6

HOTSPOT
Select the answer that correctly completes the sentence.

Answer Area

After deploying a vision-enabled GPT model in Microsoft Foundry, you can configure an application to send requests to the

endpoint of the model

evaluation pipeline of model

Foundry playground

training dataset of the model

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

After deploying a vision-enabled GPT model in Microsoft Foundry, you can configure an application to send requests to the

endpoint of the model

evaluation pipeline of model

Foundry playground

training dataset of the model

NEW QUESTION 7

HOTSPOT

Select the answer that correctly complete the sentence.

Answer Area

The

Model catalog

Monitor page

Service endpoints page

Solution templates page

 is used for comparing and deploying a wide range of models for generative AI development in Microsoft Foundry.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

The

Model catalog

Monitor page

Service endpoints page

Solution templates page

 is used for comparing and deploying a wide range of models for generative AI development in Microsoft Foundry.

NEW QUESTION 8

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE:Each correct selection is worth one point.

Answer Area

Statements	Yes	No
In Microsoft Foundry Agent Service, setting tool_choice to auto for an agent enables the agent to decide whether to call a tool.	☐	☐
In Microsoft Foundry Agent Service, setting tool_choice to none for an agent means that the model decides whether to call a tool.	☐	☐
In Microsoft Foundry Agent Service, setting tool_choice to required for an agent ensures that the agent must call one or more tools during each run.	☐	☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements

In Microsoft Foundry Agent Service, setting tool_choice to auto for an agent enables the agent to decide whether to call a tool.

Yes

No

In Microsoft Foundry Agent Service, setting tool_choice to none for an agent means that the model decides whether to call a tool.

In Microsoft Foundry Agent Service, setting tool_choice to required for an agent ensures that the agent must call one or more tools during each run.

NEW QUESTION 9

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

The Microsoft responsible AI principle of transparency requires that AI systems

be explainable to users

protect sensitive user data

reduce bias in decisions

require human oversight

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

The Microsoft responsible AI principle of transparency requires that AI systems

be explainable to users

protect sensitive user data

reduce bias in decisions

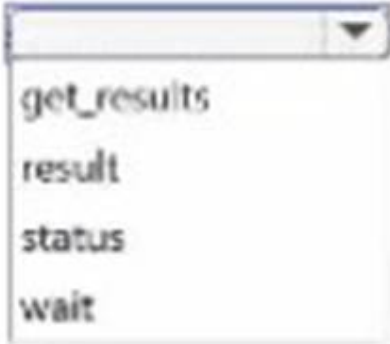
require human oversight

NEW QUESTION 10

HOTSPOT

You are developing an application that analyze invoices by using Azure Content Understanding in Foundry Tools. You need to ensure that the application retrieves the analysis results after processing completes. How should you complete the Python code? To answer, select the appropriate option in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
poller = client.begin_analyze(  
    analyzer_id="invoice",  
    input_url=url  
)  
result = poller.  ()
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
poller = client.begin_analyze(  
    analyzer_id="invoice",  
    input_url=url  
)  
result = poller.  ()
```

NEW QUESTION 10

You have a Microsoft Foundry project that contains an agent named Agent1.
You need to ensure that Agent1 always calls an Azure function when the agent responds to user input.
To what should you set tool_choice for Agent1?

- A. auto
- B. none
- C. required

Answer: C

NEW QUESTION 14

You are developing an application that processes voicemail recordings by using Azure Content Understanding in Foundry Tools.
Which feature does Azure Content Understanding use to convert audio to text?

- A. Voice Live
- B. key phrase extraction
- C. transcription
- D. optical character recognition (OCR)

Answer: C

Explanation:

Azure Content Understanding uses transcription to convert audio content, such as voicemail recordings, into text. Microsoft's Azure Content Understanding audio documentation states that transcription converts conversational audio into searchable and analyzable text-based transcripts.

Option A. Voice Live is not the feature used by Content Understanding to convert voicemail recordings into text.

Option B. key phrase extraction identifies important phrases after text is available; it is not the audio-to-text conversion step.

Option D. optical character recognition (OCR) is for extracting text from images or documents, not audio.

Therefore, the correct answer is C. transcription.

NEW QUESTION 17

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