



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

You need to create an AI agent in Microsoft Foundry that follows a specific role and behavior when responding to users. What should you configure?

- A. tokens per minute (TPM)
- B. system instructions
- C. temperature
- D. max completion tokens

Answer: B

Explanation:

To create an AI agent that follows a specific role and behavior, you configure system instructions. Microsoft Foundry Agent Service documentation states that agent instructions define goals, constraints, and behavior.

Option A. tokens per minute (TPM) controls throughput quota, not behavior.

Option C. temperature controls response randomness/creativity, not the agent's role.

Option D. max completion tokens controls response length, not the agent's role or behavioral rules.

Therefore, the correct answer is B. system instructions.

NEW QUESTION 3

HOTSPOT

You are developing a voice application that listens for spoken commands and converts them into text by using Azure Speech in Foundry Tools.

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

```
import azure.cognitiveservices.speech as speechsdk
...
speech_config = speechsdk.SpeechConfig(subscription=key, region=region)
recognizer = speechsdk.SpeechRecognizer(speech_config=speech_config)
```

recognizer.recognize_once()
recognizer.speak_text_async("Ready")
recognizer.start_continuous_recognition()
recognizer.start_keyword_recognition()

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The correct Python method is:

recognizer.recognize_once()

Completed code:

```
import azure.cognitiveservices.speech as speechsdk
```

```
speech_config = speechsdk.SpeechConfig(subscription=key, region=region)
```

recognizer = speechsdk.SpeechRecognizer(speech_config=speech_config)
recognizer.recognize_once()
Microsoft's Azure Speech documentation for Foundry Tools explains that Speech to text is used for real-time speech recognition and converting spoken audio into text. The Python Speech SDK uses a SpeechRecognizer object for recognition from audio input, such as a microphone.
Why the other options are incorrect:
recognizer.speak_text_async("Ready") is incorrect because speaking text is text-to-speech, not speech-to-text recognition.
recognizer.start_continuous_recognition() can be used for continuous recognition, but the code shown is asking for the basic method to recognize spoken input and convert it to text from the SpeechRecognizer.
recognizer.start_keyword_recognition() is used for keyword/wake-word recognition, not general speech-to-text transcription of spoken commands.
Therefore, the correct answer is:
recognizer.recognize_once()

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
An AI generative model is retrained before performing each user request.	☐	☐
An AI agent responds by copying and pasting answers stored in a database.	☐	☐
An AI agent uses a generative AI model to establish actions based on user input.	☐	☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
An AI generative model is retrained before performing each user request.	☐	☒
An AI agent responds by copying and pasting answers stored in a database.	☐	☒
An AI agent uses a generative AI model to establish actions based on user input.	☒	☐

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

You are developing an application that analyzes voicemail recordings by using Azure Content Understanding in Foundry Tools.
You need to extract a transcript and structured information from the recordings. Which type of analyzer should you use?

- A. document analyzer
- B. video analyzer
- C. audio analyzer
- D. image analyzer

Answer: C

NEW QUESTION 8

You are developing a web app that processes invoices to calculate expenses.
You need to extract structured fields, including nested values, from the invoices by using a defined schema.
What should you use?

- A. a transcription workflow in Azure Speech in Foundry Tools
- B. an optical character recognition (OCR)-only document processing pipeline
- C. an analyzer in Azure Content Understanding in Foundry Tools
- D. an Azure AI Search service

Answer: C

NEW QUESTION 9

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
Evaluators in Microsoft Foundry replace the need for configuring token limits.	☐	☐
Evaluators in Microsoft Foundry can assess the quality and safety of responses generated by a generative AI model.	☐	☐
Evaluators in Microsoft Foundry can retrain a deployed generative AI model automatically when quality issues are detected.	☐	☐

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Evaluators in Microsoft Foundry replace the need for configuring token limits.	☐	☒
Evaluators in Microsoft Foundry can assess the quality and safety of responses generated by a generative AI model.	☒	☐
Evaluators in Microsoft Foundry can retrain a deployed generative AI model automatically when quality issues are detected.	☐	☒

NEW QUESTION 10

DRAG DROP

You are reviewing best practices for using AI at your company.

Which Microsoft responsible AI principle is each task an example of? To answer, drag the appropriate principles to the correct tasks. Each task 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 match is worth one point.

Principles	Answer Area
Accountability Fairness Inclusiveness Privacy and security Reliability and safety Transparency	Evaluating model outputs to ensure that decisions are NOT biased against specific demographic groups: Principle Encrypting sensitive customer data and restricting system access to authorized personnel: Principle Informing users when they are interacting with an AI system and explaining the system's capabilities and limitations: Principle Testing AI systems under different conditions to reduce unexpected failures: Principle

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Principles	Answer Area
Accountability Fairness Inclusiveness Privacy and security Reliability and safety Transparency	Evaluating model outputs to ensure that decisions are NOT biased against specific demographic groups Encrypting sensitive customer data and restricting system access to authorized personnel Informing users when they are interacting with an AI system and explaining the system's capabilities and limitations Testing AI systems under different conditions to reduce unexpected failures
	Fairness Privacy and security Transparency Reliability and safety

NEW QUESTION 10

You have an Azure subscription.
You need to use Azure Content Understanding in Foundry Tools to extract structured data from invoices.
What should you provision?

- A. an Azure OpenAI resource
- B. a Microsoft Foundry resource
- C. A Microsoft Foundry project
- D. an Azure AI Search service

Answer: B

NEW QUESTION 11

HOTSPOT
Select the answer that correctly completes the sentence.

Answer Area

Evaluating model outcomes across demographic groups to reduce bias is an example of the Microsoft responsible AI principle of

accountability

fairness

privacy and security

transparency

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Evaluating model outcomes across demographic groups to reduce bias is an example of the Microsoft responsible AI principle of

accountability

fairness

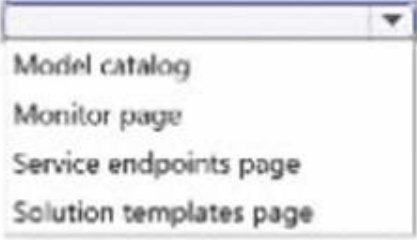
privacy and security

transparency

NEW QUESTION 14

HOTSPOT
Select the answer that correctly complete the sentence.

Answer Area

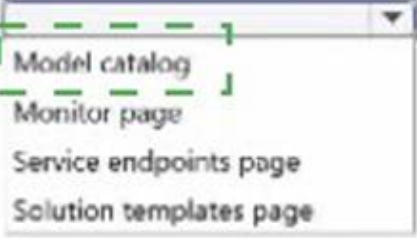
The  is used for comparing and deploying a wide range of models for generative AI development in Microsoft Foundry.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 19

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	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.	☒	☐

NEW QUESTION 21

HOTSPOT

Select the answer that correctly completes the sentence.

Answer Area

When using the OpenAI Responses API and a vision-enabled model, you can include an image in a request by providing the image as

a base64-encoded image data
a CSV file attachment
an MP4 video stream
a shared access signature (SAS) token

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

When using the OpenAI Responses API and a vision-enabled model, you can include an image in a request by providing the image as

a base64-encoded image data
a CSV file attachment
an MP4 video stream
a shared access signature (SAS) token

NEW QUESTION 24

Based on the image provided, here is the transcribed text:
You need to build an AI solution that produces new product images based on written descriptions provided by users. Which AI workload should you use?

- A. image generation
- B. image analysis
- C. object detection
- D. optical character recognition (OCR)

Answer: A

NEW QUESTION 29

HOTSPOT
Select the answer that correctly complete the sentence.

Answer Area

Information extraction solutions that detect and read text in scanned documents and images rely on

computer vision
image generation
sentiment analysis
speech synthesis

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Information extraction solutions that detect and read text in scanned documents and images rely on

computer vision
image generation
sentiment analysis
speech synthesis

NEW QUESTION 33

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.

get_results  
result  
status  
wait

 ()
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

get_results  
result  
status  
wait

 ()
```

NEW QUESTION 36

You have a Microsoft Foundry project that has a generative AI model deployment.
You need to ensure that responses generated by the model minimize costs and remain within a defined length.
Which parameter should you configure?

- A. Temperature
- B. Max Completion Tokens
- C. Top P
- D. Model version settings

Answer: B

NEW QUESTION 39

You have a Microsoft Foundry project that contains a vision-enabled model deployment. You are developing an application that sends images to the model.
You need to ensure that the model can analyze the images.
In which two formats can you provide the images? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

- A. a JSON document that describes the image content
- B. a UTF-8 encoded text description of the image
- C. a publicly accessible URL of the image
- D. a base64 encoded image data string

Answer: CD

NEW QUESTION 41

HOTSPOT
Select the answer that correctly completes the sentence.

Answer Area

An AI workload that produces new content based on user input is an example of

content understanding
generative AI
information extraction
text analysis

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

An AI workload that produces new content based on user input is an example of

content understanding
generative AI
information extraction
text analysis

NEW QUESTION 42

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
Generating a response to a user prompt occurs during the inference stage.	☐	☐
A generative AI model generates responses by copying stored documents directly from the model's training data.	☐	☐
A generative AI model produces output by predicting the next token based on patterns learned from the model's training data.	☐	☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Generating a response to a user prompt occurs during the inference stage.	☒	☐
A generative AI model generates responses by copying stored documents directly from the model's training data.	☐	☒
A generative AI model produces output by predicting the next token based on patterns learned from the model's training data.	☒	☐

NEW QUESTION 45

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