

Azure AI 102 Review Questions

1. You are building a solution that uses Azure AI Search. You need to define the field attributes for a field where the search results will include a hit count by category. Which attribute should you assign to the field?

Facetable

2. You are building a solution that uses Azure AI Search. You need to execute the initial run of the indexer. Which stages will be included during the initial run

Answer: document cracking, field mapping, skillset execution, and output field mapping

3. You are building a solution that uses Azure AI Search. You need to save normalized binary files as projections. Which type of projection should you use?

Answer: Files

4. You are building an app will use Azure AI Search. You need to index a collection of documents. What is the first stage of the indexing process?

Answer: Document Tracking

5. You are building a knowledge mining solution that will use AI enrichment and Azure AI Search. You need to create a data structure that will be used to store the enriched and indexed output for downstream apps. What should you create?

Answer: Knowledge Store

6. You are building a knowledge mining solution that uses Azure AI Search. You need to apply AI enrichment to your indexer pipeline to generate links to Wikipedia articles. Which skill should you use?

Answer: Microsoft.Skills.Text.V3.EntityLinkingSkill

7. You are building an app named App1 that uses the Image Analysis API. You are evaluating analyzing images by using the following request.
`https://*.cognitiveservices.azure.com/computervision/imageanalysis:analyze?features=read,description` Which results will the request return?

Answer: The visible text in the image and content description of the image content

8. You are building an app that will detect the color scheme of uploaded images. You are evaluating using the Image Analysis API to detect the dominant background color of an image. Which color can the API return as a dominant background color?

Answer - Teal

9. You have an app named App1 that extracts invoice data from PDF files by using an S0 instance of Azure AI Document Intelligence. The PDF files are up to 2 MB each and contain up to 10 pages. Users report that App1 is unable to process some invoices. You need to troubleshoot the issue. What is a possible cause of the issue?

Answer - Some files are password protected

10. You need to build an app that will use Azure AI Vision to analyze and detect animals in images. Which type of project should you use?

Answer - Object Detection

11. You are building an app that will use Azure AI Vision to analyze and classify images to build an image library of animals. You need to configure the classification type for the Azure AI Vision project. The solution must ensure that the images selected only include a single animal. Which type of classification should you use?

Answer - Multiclass

12. You are building an app that uses the Azure AI Video indexer API to analyze Microsoft Teams meeting recordings. The app will search for images and mentions of competing companies. Which content model should you use?

Answer - Custom Brands

13. You are using a custom Language content model in an Azure AI Video Indexer solution. During testing, you upload a text file that includes the following sentence: "Kubernetes is a new feature in Azure & the cloud." The sentence is discarded. You need to ensure that the model retains the sentence. What should you do?

Answer - Remove the & character from the text file

14. You are building a video processing app that will use Azure AI Video Indexer. You need to configure the training and learning phases for the app. The solution must train the model based on the probability of specific word combinations by using a custom Language model. Which three practices should be followed for the training data? Each correct answer presents a complete solution.

Answer - Include multiple examples of spoken sentences, Provide multiple adaptation options, Put only one sentence per line.

15. You are building a video processing app that will use Azure AI Video Indexer to extract insights from videos that contain multi-language content. You need to configure the API calls to enable multilingual identification. Which value should you set for the sourceLanguage parameter?

Answer - Multi language detection

16. You have a website that allows users to upload images. You need to ensure that the uploaded images do not contain adult content. The solution must minimize development effort. Which service should you use?

Answer - Azure AI vision Image Analysis

17. You are building an app that will extract specific information from scanned receipts. Which service should you use?

Answer - Azure AI Document Intelligence

18. You plan to implement a solution to extract information from documents by using Azure AI Document Intelligence and use prebuilt models where possible. You need to identify the prebuilt models available in Azure AI Document Intelligence. Which three models are available? Each correct answer presents a complete solution.

Answer - Invoice, Receipt, W2

19. You are building a mobile app that will enable users to scan street signs and will read out the text on the sign. You need to recommend a service to use. The solution must minimize development effort. Which service should you recommend?

Answer - Azure AI Vision

20. You are building an app that will extract text from scanned receipts. You need to recommend which service to use. The solution must minimize development effort. What should you recommend?

Answer - Azure AI Document Intelligence

21. You are building an app that will use an Azure AI Services resource. You need to identify the endpoint for the resource. From the Azure CLI, which command should you run?

Answer - `az cognitiveservices account show --name myresource --resource-group cognitive-services-resource-group`

22. You plan to build an app that will use Azure AI Services. You need to identify the methods that can be used to authenticate to Azure AI Services. Which two methods can you use? Each correct answer presents a complete solution.

Answer - A subscription, Microsoft Entra ID

23. You are building an app that will use Azure AI Custom Vision. The app will be deployed to a virtual machine in Azure. You enable firewall rules for your Azure AI Services account. You need to ensure that the app can access the service through a service endpoint. What should you do?

Answer - Grant Access to specific Virtual Network

24. You are developing a containerized optical character recognition (OCR)-capable application by using Azure AI Services containers. While developing the solution, you retrieve a status message of "Mismatch", and the connection to the AI Services resource fails. You need to ensure that the solution can connect to the AI Services resource. What should you do?

Answer - Confirm the API key is for the correct resource type

25. You are creating an assistant based on a generative Azure AI model. You plan to use the system message component for prompts in the solution. Which two capabilities does the system message offer for the model? Each correct answer presents part of the solution.

Answer - defines what the model should and should not do, helps define the assistant's personality

26. You are provisioning an Azure OpenAI service resource. You need to ensure that the resource is only available to applications that are hosted in your Azure subscription. Which network security setting should you configure?

Answer - Disabled, and allow a private endpoint connection to establish access

27. You have an Azure OpenAI solution. The solution uses a specific GPT-35-Turbo model version that was current during initial deployment. Auto-update is disabled. Sometime later, you investigate the deployed solution and discover that it uses a newer version of the model. Why was the model version updated?

Answer - The model version reached its retirement date

28. You are building a web app that will generate images based on user prompts. The app will use the DALL-E 3 Azure OpenAI model. You need to ensure that HTTP requests against the Azure OpenAI API successfully generate images. Which HTTP body property should you include?

The prompt

29. You are deploying an Azure OpenAI service. You plan to use your own data in the models you will deploy. You need to ensure that the model can index your data sources. Which additional Azure service should you deploy?

Answer - Azure AI Search

30. You are building a GPT-based chat application that will answer questions about your company. You plan to use the Using your data feature in Azure OpenAI to ground the model with company data. Which four types of files can you use to ground the model? Each correct answer presents a complete solution.

Answer - PDF, TXT, MD, HTML

31. You are building a GPT-based chat application that will answer questions about your company. You plan to use the Using your data feature in Azure OpenAI to ground the model with your company data. While testing, you discover that some responses are not accurate enough. You need to configure the Azure OpenAI resource to filter out less-relevant documents for responses. Which parameter should you configure?

Answer - Strictness

32. You are creating an application that will use Azure OpenAI REST API services. The application uses a REST call to a DALL-E model to generate images. The three parameters in the REST call are prompt, n, and size. What does the size parameter indicate?

Answer - The size of the image in pixel resolution

33. You are building an app that will flag documents that contain the names of staff members by using the Azure AI Language Personally Identifiable Information (PII) detection feature. You need to configure the PII detection feature. Which category should you use?

Answer - Person

34. You need to build an app that will summarize text documents into key phrases. Which Azure AI Language feature should you recommend?

Answer - Key Phrase Extraction

35. You have an app that sends audio recordings from a call center to the speech-to-text feature of Azure AI Services. During testing, you notice that the Word Error Rate (WER) is high and there are a lot of substitution errors. You need to improve the model and reduce the WER. What should you add to the training data?

Answer - Custom Product and People Names

36. You are building an app that will analyze meeting recordings and identify who is speaking at which moment in time. You need to configure a voice profile for the app. Which type of voice profile should you use?

Answer - Speaker Identification

37. You are building an app that will enable users to create notes by using speech. You need to recommend the Azure AI Speech service model to use. The solution must support noisy environments. Which model should you recommend?

Answer - Custom Speech To Text

38. You plan to build an app that will transcribe large quantities of audio files by using the Azure AI Speech service batch transcription feature. You need to recommend a storage solution for the audio files. The solution must minimize development effort. What should you recommend?

Answer - Azure Storage