

CERT-PASS

Microsoft AI-900 Azure AI Fundamentals

Free Practice Questions Preview

Here are 35 sample questions to help you get started. Unlock the full exam to access all 1104+ questions with detailed explanations.

Question 1 : Describe Artificial Intelligence workloads and considerations

A support manager at a travel platform must inspect product images and identify visible defects. Which option should be selected?

- A. **computer vision**
- B. natural language processing
- C. clustering
- D. speech synthesis

Answer: A

Difficulty: Easy (1/3). Computer vision is used to interpret visual content such as images or video. The best wrong answer fails because natural language processing works with text or language rather than pixels.

Question 2 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a public library network decides to test how an AI assistant behaves when users submit ambiguous or adversarial prompts. What should the team identify?

- A. inclusiveness
- B. **reliability and safety**
- C. transparency
- D. fairness

Answer: B

Difficulty: Easy (1/3). Reliability and safety focus on consistent operation and preventing harmful behavior or failures. The best wrong answer fails because fairness concerns equitable outcomes, not resilience when inputs are unexpected.

Question 3 : Describe Artificial Intelligence workloads and considerations

For a new prototype, an agricultural cooperative needs to predict whether a support ticket should be routed to billing, technical support, or account services. Which option is the best fit?

- A. regression
- B. clustering

C. classification

D. OCR

Answer: C

Difficulty: Easy (1/3). Classification predicts a category or class. The best wrong answer fails because regression predicts a numeric value rather than a discrete category.

Question 4 : Describe Artificial Intelligence workloads and considerations

Which capability should a software company choose to read an application notification aloud to a user?

A. speech recognition

B. OCR

C. entity recognition

D. speech synthesis

Answer: D

Difficulty: Easy (1/3). Speech synthesis generates spoken audio from text. The best wrong answer fails because speech recognition converts audio into text, not text into speech.

Question 5 : Describe Artificial Intelligence workloads and considerations

A customer-experience manager at a public transport operator must extract invoice numbers, totals, and vendor names from scanned invoices. Which option should be selected?

A. document processing

B. speech synthesis

C. clustering

D. image classification

Answer: A

Difficulty: Easy (1/3). Document processing extracts structured information from forms and documents. The best wrong answer fails because image classification assigns an image-level category but does not extract form fields.

Question 6 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a media publisher decides to ensure a voice-enabled app also supports users who cannot rely on audio interactions. What should the team identify?

A. accountability

B. inclusiveness

C. privacy and security

D. reliability and safety

Answer: B

Difficulty: Easy (1/3). Inclusiveness means designing AI solutions that empower and accommodate people with varied abilities and circumstances. The best wrong answer fails because privacy and security protect information but do not ensure the user experience works for diverse abilities.

Question 7 : Describe Artificial Intelligence workloads and considerations

For a new prototype, a sports analytics startup needs to group customers into naturally occurring segments without predefined segment labels. Which option is the best fit?

- A. classification
- B. regression
- C. clustering**
- D. OCR

Answer: C

Difficulty: Easy (1/3). Clustering groups similar records without requiring predefined labels. The best wrong answer fails because classification requires known target categories for training.

Question 8 : Describe Artificial Intelligence workloads and considerations

Which capability should a training provider choose to reduce the personal information collected by an AI-powered intake form?

- A. collecting every available field
- B. publishing raw prompts for debugging
- C. sharing a single administrator account
- D. data minimization**

Answer: D

Difficulty: Easy (1/3). Data minimization reduces privacy risk by collecting only information necessary for the stated purpose. The best wrong answer fails because collecting every available field increases exposure and is not justified merely because storage is available.

Question 9 : Describe Artificial Intelligence workloads and considerations

A support manager at an energy company must check whether a loan-screening model produces materially different outcomes across demographic groups. Which option should be selected?

- A. fairness**
- B. transparency
- C. reliability and safety
- D. accountability

Answer: A

Difficulty: Easy (1/3). Fairness focuses on avoiding unjustified differences in outcomes for groups of people. The best wrong answer fails because transparency explains system behavior but does not by itself test whether outcomes are equitable.

Question 10 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a regional bank decides to assign a business owner to approve deployment and handle escalation for harmful outcomes. What should the team identify?

- A. transparency
- B. accountability**
- C. fairness
- D. inclusiveness

Answer: B

Difficulty: Easy (1/3). Accountability means people and organizations remain responsible for the AI solution and its outcomes. The best wrong answer fails because transparency supports understanding, but responsibility still needs a clear owner and review process.

Question 11 : Describe Artificial Intelligence workloads and considerations

For a new prototype, a legal services firm needs to produce a transcript of a recorded service call. Which option is the best fit?

- A. speech synthesis
- B. translation
- C. speech recognition**
- D. key phrase extraction

Answer: C

Difficulty: Easy (1/3). Speech recognition converts spoken audio into text. The best wrong answer fails because speech synthesis performs the opposite direction by generating audio from text.

Question 12 : Describe Artificial Intelligence workloads and considerations

Which capability should a construction company choose to analyze written customer comments to determine their meaning?

- A. computer vision
- B. regression
- C. object detection
- D. natural language processing**

Answer: D

Difficulty: Easy (1/3). Natural language processing is the AI workload for analyzing and understanding human language. The best wrong answer fails because computer vision is for images and video, not the meaning of customer comments.

Question 13 : Describe Artificial Intelligence workloads and considerations

A customer-experience manager at a local government office must limit access to sensitive training data and prevent exposure of customer records. Which option should be selected?

- A. privacy and security**
- B. inclusiveness
- C. fairness
- D. transparency

Answer: A

Difficulty: Easy (1/3). Privacy and security require protecting data, access, and sensitive information. The best wrong answer fails because inclusiveness aims to support diverse users but is not the control for protecting confidential records.

Question 14 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a repair-services company decides to estimate the number of minutes until a delivery arrives. What should the team identify?

- A. classification
- B. regression**
- C. clustering
- D. sentiment analysis

Answer: B

Difficulty: Easy (1/3). Regression predicts a numeric value. The best wrong answer fails because classification predicts categories rather than a numeric amount.

Question 15 : Describe Artificial Intelligence workloads and considerations

For a new prototype, a logistics company needs to design a benefits eligibility workflow where adverse decisions can materially affect people. Which option is the best fit?

- A. fully automated approval with no appeal route
- B. removing all monitoring after launch
- C. human review for high-impact decisions**
- D. using only the largest available model

Answer: C

Difficulty: Easy (1/3). High-impact decisions should include appropriate oversight, escalation, and appeal mechanisms. The best wrong answer fails because a fully automated process with no appeal route weakens accountability and can amplify errors.

Question 16 : Describe Artificial Intelligence workloads and considerations

Which capability should a food delivery platform choose to draft a personalized response based on a support conversation?

- A. regression
- B. OCR
- C. clustering
- D. generative AI**

Answer: D

Difficulty: Easy (1/3). Generative AI creates new content such as text, summaries, images, or code. The best wrong answer fails because oCR extracts existing text; it does not draft new content.

Question 17 : Describe Artificial Intelligence workloads and considerations

A support manager at a museum must tell users that recommendations are generated by AI and describe the system's limitations. Which option should be selected?

- A. transparency**
- B. fairness
- C. accountability
- D. privacy and security

Answer: A

Difficulty: Easy (1/3). Transparency requires communicating how and why an AI system is used, including relevant limitations. The best wrong answer fails because accountability assigns responsibility but does not replace clear explanations to affected users.

Question 18 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, an e-commerce marketplace decides to read printed serial numbers from photographs of equipment labels. What should the team identify?

- A. image classification
- B. optical character recognition (OCR)**
- C. object detection
- D. speech recognition

Answer: B

Difficulty: Easy (1/3). OCR identifies and extracts text from images or scanned documents. The best wrong answer fails because object detection finds objects and their locations but does not extract printed words.

Question 19 : Describe Artificial Intelligence workloads and considerations

For a new prototype, a payment processor needs to inspect product images and identify visible defects. Which option is the best fit?

- A. natural language processing
- B. clustering
- C. computer vision**
- D. speech synthesis

Answer: C

Difficulty: Easy (1/3). Computer vision is used to interpret visual content such as images or video. The best wrong answer fails because natural language processing works with text or language rather than pixels.

Question 20 : Describe Artificial Intelligence workloads and considerations

Which capability should a city services portal choose to test how an AI assistant behaves when users submit ambiguous or adversarial prompts?

- A. inclusiveness
- B. transparency
- C. fairness
- D. reliability and safety**

Answer: D

Difficulty: Easy (1/3). Reliability and safety focus on consistent operation and preventing harmful behavior or failures. The best wrong answer fails because fairness concerns equitable outcomes, not resilience when inputs are unexpected.

Question 21 : Describe Artificial Intelligence workloads and considerations

A customer-experience manager at a telecom provider must predict whether a support ticket should be routed to billing, technical support, or account services. Which option should be selected?

- A. classification**
- B. regression
- C. clustering
- D. OCR

Answer: A

Difficulty: Easy (1/3). Classification predicts a category or class. The best wrong answer fails because regression predicts a numeric value rather than a discrete category.

Question 22 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a cybersecurity company decides to read an application notification aloud to a user. What should the team identify?

- A. speech recognition
- B. speech synthesis**
- C. OCR
- D. entity recognition

Answer: B

Difficulty: Easy (1/3). Speech synthesis generates spoken audio from text. The best wrong answer fails because speech recognition converts audio into text, not text into speech.

Question 23 : Describe Artificial Intelligence workloads and considerations

For a new prototype, an airline needs to extract invoice numbers, totals, and vendor names from scanned invoices. Which option is the best fit?

- A. speech synthesis
- B. clustering
- C. document processing**
- D. image classification

Answer: C

Difficulty: Easy (1/3). Document processing extracts structured information from forms and documents. The best wrong answer fails because image classification assigns an image-level category but does not extract form fields.

Question 24 : Describe Artificial Intelligence workloads and considerations

Which capability should a research institute choose to ensure a voice-enabled app also supports users who cannot rely on audio interactions?

- A. accountability
- B. privacy and security
- C. reliability and safety
- D. inclusiveness**

Answer: D

Difficulty: Easy (1/3). Inclusiveness means designing AI solutions that empower and accommodate people with varied abilities and circumstances. The best wrong answer fails because privacy and security protect information but do not ensure the user experience works for diverse abilities.

Question 25 : Describe Artificial Intelligence workloads and considerations

A support manager at a travel platform must group customers into naturally occurring segments without predefined segment labels. Which option should be selected?

- A. clustering**
- B. classification
- C. regression
- D. OCR

Answer: A

Difficulty: Easy (1/3). Clustering groups similar records without requiring predefined labels. The best wrong answer fails because classification requires known target categories for training.

Question 26 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a public library network decides to reduce the personal information collected by an AI-powered intake form. What should the team identify?

- A. collecting every available field
- B. data minimization**
- C. publishing raw prompts for debugging
- D. sharing a single administrator account

Answer: B

Difficulty: Easy (1/3). Data minimization reduces privacy risk by collecting only information necessary for the stated purpose. The best wrong answer fails because collecting every available field increases exposure and is not justified merely because storage is available.

Question 27 : Describe Artificial Intelligence workloads and considerations

For a new prototype, an agricultural cooperative needs to check whether a loan-screening model produces materially different outcomes across demographic groups. Which option is the best fit?

- A. transparency
- B. reliability and safety
- C. fairness**
- D. accountability

Answer: C

Difficulty: Easy (1/3). Fairness focuses on avoiding unjustified differences in outcomes for groups of people. The best wrong answer fails because transparency explains system behavior but does not by itself test whether outcomes are equitable.

Question 28 : Describe Artificial Intelligence workloads and considerations

Which capability should a software company choose to assign a business owner to approve deployment and handle escalation for harmful outcomes?

- A. transparency
- B. fairness
- C. inclusiveness
- D. accountability**

Answer: D

Difficulty: Easy (1/3). Accountability means people and organizations remain responsible for the AI solution and its outcomes. The best wrong answer fails because transparency supports understanding, but responsibility still needs a clear owner and review process.

Question 29 : Describe Artificial Intelligence workloads and considerations

A customer-experience manager at a public transport operator must produce a transcript of a recorded service call. Which option should be selected?

- A. speech recognition**
- B. speech synthesis
- C. translation
- D. key phrase extraction

Answer: A

Difficulty: Easy (1/3). Speech recognition converts spoken audio into text. The best wrong answer fails because speech synthesis performs the opposite direction by generating audio from text.

Question 30 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a media publisher decides to analyze written customer comments to determine their meaning. What should the team identify?

- A. computer vision
- B. natural language processing**
- C. regression
- D. object detection

Answer: B

Difficulty: Easy (1/3). Natural language processing is the AI workload for analyzing and understanding human language. The best wrong answer fails because computer vision is for images and video, not the meaning of customer comments.

Question 31 : Describe Artificial Intelligence workloads and considerations

For a new prototype, a sports analytics startup needs to limit access to sensitive training data and prevent exposure of customer records. Which option is the best fit?

- A. inclusiveness
- B. fairness
- C. privacy and security**
- D. transparency

Answer: C

Difficulty: Easy (1/3). Privacy and security require protecting data, access, and sensitive information. The best wrong answer fails because inclusiveness aims to support diverse users but is not the control for protecting confidential records.

Question 32 : Describe Artificial Intelligence workloads and considerations

Which capability should a training provider choose to estimate the number of minutes until a delivery arrives?

- A. classification
- B. clustering
- C. sentiment analysis
- D. regression**

Answer: D

Difficulty: Easy (1/3). Regression predicts a numeric value. The best wrong answer fails because classification predicts categories rather than a numeric amount.

Question 33 : Describe Artificial Intelligence workloads and considerations

A support manager at an energy company must design a benefits eligibility workflow where adverse decisions can materially affect people. Which option should be selected?

- A. human review for high-impact decisions**
- B. fully automated approval with no appeal route
- C. removing all monitoring after launch
- D. using only the largest available model

Answer: A

Difficulty: Easy (1/3). High-impact decisions should include appropriate oversight, escalation, and appeal mechanisms. The best wrong answer fails because a fully automated process with no appeal route weakens accountability and can amplify errors.

Question 34 : Describe Artificial Intelligence workloads and considerations

During an initial requirements workshop, a regional bank decides to draft a personalized response based on a support conversation. What should the team identify?

- A. regression
- B. generative AI**
- C. OCR
- D. clustering

Answer: B

Difficulty: Easy (1/3). Generative AI creates new content such as text, summaries, images, or code. The best wrong answer fails because oCR extracts existing text; it does not draft new content.

Question 35 : Describe Artificial Intelligence workloads and considerations

For a new prototype, a legal services firm needs to tell users that recommendations are generated by AI and describe the system's limitations. Which option is the best fit?

- A. fairness
- B. accountability
- C. transparency**
- D. privacy and security

Answer: C

Difficulty: Easy (1/3). Transparency requires communicating how and why an AI system is used, including relevant limitations. The best wrong answer fails because accountability assigns responsibility but does not replace clear explanations to affected users.

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