Practice Test 2

Please select all options that are NOT the key elements of Artificial Intelligence.

☐ A.
Machine Learning

☐ B.
Anomaly Detection

☐ C.
Computer Vision

☐ D.
Object Detection

☐ E.
Natural Language Processing

☐ F.
Conversational AI

☐ G.
Automated Machine Learning

Question 2
Unattempted
Domain: Describe AI workloads and considerations

You created an AI solution. Along with solution deployment, you provided information about the solution's possibilities and limitations. By providing this information, what principle for responsible AI did you comply with?

○ A.
Fairness

○ B.
Reliability and safety

○ C.
Privacy and security

○ D.
Transparency

○ E.

Inclusiveness

○ F.
Accountability

Question 3
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You are working for a car dealership. Your boss asks you to provide him information about how many blue cars he needs to order for the next quarter.
You decide to create an ML model and choose an unsupervised machine learning approach.
Will this help you achieve your goal?

○ A. Yes

○ B. No

Question 4
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You are working for a car dealership. Your boss asks you to provide him forecast information. Will the new car model be successful or not? The new model has a variety of engine improvements, more comfortable seats, and a sunroof. You compiled the list of data about previous successful models with their characteristics and sales numbers.
What should you do in the pre-processing data stage that would help you predict the new model's success?

○ A.
Data selection

○ B.
Training set selection

○ C.
Data for model evaluation selection

○ D.
Feature selection

○ E.
Data classification

Question 5
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You created a classification model with four possible classes.
What will be the size of the confusion matrix?

○ A.
2x2

○ B.
3x3

○ C.
4x4

○ D.
6x6

○ E.
10x10

Question 6
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

When you prepare data for the model training, you have to use your domain knowledge to select the label (or labels), features, and scale and normalize them.
What is the generic name for the process that includes all the steps mentioned above?

○ A.
Feature selections

○ B.
Data normalization

○ C.
Model training

○ D.
Featurization

○ E.
Missing data handling

Question 7
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

What are the four types of Compute resources you can use in Azure Machine Learning Studio?
Please select all that apply.

☐ A.
Compute Instances

☐ B.
Automated ML instances

☐ C.
Compute clusters

☐ D.
Inference clusters

☐ E.
Classification clusters

☐ F.
Attached compute

☐ G.
AKS Cluster instances

Question 8
Unattempted
Domain: Describe features of computer vision workloads on Azure

You created a Custom Vision model. You want your model to detect trained objects on the photos.
What information will you get about each object if you are using an object detection model?
Please select all that apply.

☐ A.
Image type

☐ B.
Bounding box

☐ C.
Image category

☐ D.
Class name

☐ E.
Probability score

☐ F.
Content name

Question 9
Unattempted
Domain: Describe features of computer vision workloads on Azure

The application scans a document with a lot of pages. It returns the following information for each page, such as page information, lines information, and words for each line with a confidence level.
What API does the application use to scan the document?

○ A.
OCR

○ B.
NLP

○ C.
Read

○ D.
Text Analytics

○ E.
LUIS

Question 10
Unattempted
Domain: Describe features of computer vision workloads on Azure

You created a Custom Vision model using the Custom Vision portal.
What information do you need to provide to the developers to use this model?
Please select all that apply.

☐ A.
Project ID

☐ B.
Security Key

☐ C.
Model name

☐ D.
Prediction key

☐ E.
Cognitive Service key

☐ F.
Prediction Endpoint

Question 11
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

You are working at the hotel chain. You are planning to apply Natural Language Processing for the sentiment analysis of the customer reviews.
What sentiment score should you expect for the following review:" The prices were ridiculously high. We could stay at the palace for that price! The water in the shower was cold, no hot water whatsoever"?

○ A.
1

○ B.
0.5

○ C.
2

○ D.
0.9

○ E.
0.1

Question 12
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

What are the four types of entities that you can create during the authoring of the LUIS Application?

☐ A.
Machine-Learned

☐ B.
List

☐ C.
FAQ document

☐ D.
RegEx

☐ E.
Chit-chat

☐ F.
Pattern.any

☐ G.
Alternative phrasing

Question 13
Unattempted
Domain: Describe features of conversational AI workloads on Azure

What components do you need to create a simple Web Chat Bot?

☐ A.
Entities

☐ B.
Knowledge base

☐ C.
Utterances

☐ D.
Bot Service

☐ E.
LUIS

☐ F.
Text Analytics

Question 14
Unattempted
Domain: Describe features of conversational AI workloads on Azure

You want to build a personal virtual assistant. What service will you use to connect your assistant with various input channels and devices?

○ A.
Computer Vision

○ B.
Azure Bot Service

○ C.
QnA Maker

○ D.
LUIS

○ E.
Speech to Text

○ F.
Text Analytics

Question 15

Unattempted

Domain: Describe features of conversational AI workloads on Azure

You build a Bot using the Bot Framework and Azure Bot Service. You want to extend the capabilities of your Bot.
What will you use to achieve your goal?

○ A.
Custom Vision

○ B.
Language Translation

○ C.
Chit-Chat

○ D.
Skills

○ E.
Text to Speech

○ F.
FAQ Document

Question 16

Unattempted

Domain: Describe AI workloads and considerations

What are the main features and capabilities of Azure Machine Learning?
Please select all options that apply.

☐ A.
Anomaly Detection

☐ B.
Pipelines

☐ C.
Object Detection

☐ D.
Automated machine learning

☐ E.
Azure Machine Learning designer

Question 17
Unattempted
Domain: Describe AI workloads and considerations

Microsoft defines this Computer Vision technique in the following way.
"An advanced machine learning technique in which individual pixels in the image are classified according to the object to which they belong."
What is the name of this common Compute Vision task?

○ A.
Image Classification

○ B.
Semantic Segmentation

○ C.
Object Detection

○ D.
Image Analysis

○ E.
Face recognition

Question 18
Unattempted
Domain: Describe AI workloads and considerations

You created an AI solution that qualifies customers for a bank loan. The solution provides different results for the people living in cities and rural areas.
What responsible AI principle does your solution violate?

○ A.
Transparency

○ B.
Reliability and safety

○ C.
Privacy and security

○ D.

Inclusiveness

○ E.
Fairness

○ F.
Accountability

Question 19
Unattempted
Domain: Describe AI workloads and considerations

You are building your AI solution within the framework of governance and organizational requirements that reflect defined legal and ethical standards.
What responsible AI principle are you following?

○ A.
Privacy and security

○ B.
Transparency

○ C.
Inclusiveness

○ D.
Accountability

○ E.
Reliability and safety

○ F.
Fairness

Question 20
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You work for a major airline. The airline is planning to implement new services for the premium cabin. You have been asked to predict whether elite members of a frequent flyer program favor these services or not.
You decided to implement Clustering modeling.
Does this decision help you achieve your goal?

○ A. **Yes**
○ B. **No**

Question 21
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

When you are creating a Clustering Model, what common ML algorithm are you using?

○ A.
Multicast Logistic Regression

○ B.
K-means

○ C.
Linear Regression

○ D.
Two-Class Neural Network

○ E.
Decision Forest Regression

Question 22
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You need to train and test your model. You prepared data for model training. You decided to use this data for the model training and then for the model validation.
Does this decision help you achieve your goal?

○ A. **Yes**
○ B. **No**

Question 23
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You need to create a classification model using Azure ML. What types of algorithms will you use?
Please select all that apply.

☐ A.
Two-class logistic regression

☐ B.
Linear Regression

☐ C.
K-means clustering

☐ D.
Multiclass logistic regression

☐ E.
Decision forest regression

☐ F.
Multiclass decision forest

Question 24
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

What are the four typical steps of data transformation for model training?
Please select all that apply.

☐ A.
Feature selection

☐ B.
Finding and removing data outliers

☐ C.
Split data

☐ D.
Impute missing values

☐ E.
ML algorithm selection

☐ F.
Normalize numeric features

Question 25
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

What steps are NOT part of the model training stage after data transformation?
Select all that apply.

☐ A.
Feature selection

☐ B.
Algorithm selection

☐ C.
Normalize numeric features

☐ D.

Provide a labeled dataset

☐ E.
Split data

☐ F.
Model Training

☐ G.
Scoring results

Question 26
Unattempted
Domain: Describe features of computer vision workloads on Azure

You install a visual product search application on your mobile. The application searches products based on their images that you capture by mobile camera.
What common Computer Vision task does this application use for the product search?

○ A.
Object detection

○ B.
Semantic segmentation

○ C.
Image classification

○ D.
Face detection

○ E.
Image Analysis

Question 27
Unattempted
Domain: Describe features of computer vision workloads on Azure

You implement an aerial image processing application to identify the flooded areas.
What common Computer Vision task is this application using?

○ A.
Object detection

○ B.
Semantic segmentation

○ C.

Image classification

○ D.
Face detection

○ E.
Image Analysis

Question 28
Unattempted
Domain: Describe features of computer vision workloads on Azure

What tasks does Computer Vision Cognitive service include?
Please select all that apply.

☐ A.
Translator text

☐ B.
Read the text in the image

☐ C.
Detects Objects

☐ D.
Processes forms

☐ E.
Identifies Landmarks

☐ F.
Find Similar Faces

☐ G.
Categorize image

Question 29
Unattempted
Domain: Describe features of computer vision workloads on Azure

Please select three key fields that Form Recognizer service extracts from the common receipts.

☐ A.
Today's date

☐ B.
Time of transaction

☐ C.
Taxes paid

☐ D.
Source of payment

☐ E.
Merchant information

☐ F.
Promotion information

Question 30
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

What are two common models that speech recognition service uses?

☐ A.
Language model

☐ B.
Image classification model

☐ C.
Object detection model

☐ D.
Acoustic Model

☐ E.
Speaker identification model

Question 31
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

You want to use Text Analytics to analyze your text.
What are the four services that Text Analytics provides?

☐ A.
Sentiment analysis

☐ B.
Authoring

☐ C.
Key phrase extraction

☐ D.
Translator Text

E.
Entity recognition

F.
Language Detection

G.
Alternative phrasing

Question 32
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

What services are involved in live speech translation?
Please select all that apply.

A.
Speech Recognition

B.
Speech-to-Text

C.
Language Detection

D.
Speech Correction

E.
Text Analysis

F.
Machine Translation

G.
Text-to-Speech

Question 33
Unattempted
Domain: Describe features of conversational AI workloads on Azure

The telephone voice menus are an example of…?

A.
Text Analytics

B.
Speech Synthesis

○ C.
Machine Translation

○ D.
Speech-to-Text

○ E.
Speech recognition

Question 34
Unattempted
Domain: Describe features of conversational AI workloads on Azure

What Azure resource is common for Conversation AI software "agents"?

○ A.
Azure Storage Account

○ B.
Azure Virtual Network

○ C.
Azure Cognitive Search

○ D.
Azure Bot Service

○ E.
Azure Custom Vision

Question 35
Unattempted
Domain: Describe features of conversational AI workloads on Azure

You create a knowledge base for QnA service.
What controls the size of the knowledge base?
Select all that apply.

☐ A.
Azure Storage account limits

☐ B.
Azure Bot Service limits

☐ C.
Cognitive search pricing tier limits

☐ D.
Cognitive services limits

☐ E.
QnA Maker limits

☐ F.
Resource sharing limits

Question 36
Unattempted
Domain: Describe AI workloads and considerations

What Azure Cognitive services can you use to build Natural Language Processing solutions? Please select all options that apply.

☐ A.
Text Analytics

☐ B.
Pipelines

☐ C.
LUIS

☐ D.
Object Detection

☐ E.
Translator Text

☐ F.
Automated machine learning

☐ G.
Speech

Question 37
Unattempted
Domain: Describe AI workloads and considerations

You created a Personal Virtual Assistant.
Select all responsible AI principles that your solution must follow.

☐ A.
Responsiveness

☐ B.
Privacy and security

☐ C.
Dependability

☐ D.
Inclusiveness

☐ E.
Answerability

☐ F.
Reliability and safety

Question 38
Unattempted
Domain: Describe AI workloads and considerations

Please select the three Inclusive Design Principles for AI solutions.

☐ A.
Recognize exclusion

☐ B.
Privacy and security

☐ C.
Solve for one, extend to many

☐ D.
Transparency

☐ E.
Learn from diversity

☐ F.
Fairness

Question 39
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You work for a major airline. The airline is planning to implement new services for the premium cabin. You have been asked to predict how much money elite members of a frequent flyer program would be willing to spend on these new services.
You decided to implement Classification modeling.
Does this decision help you achieve your goal?

○ A. Yes
○ B. No

Question 40
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You need to train and test your ML model. You prepare data for model training. Several of your numeric features have different scales. The first feature has a minimum value of 0.253 and a max of 0.987, the second one—from 12 to 124, and the last one—from 13545 to 56798. You need to bring them to a common scale.
You decide to use feature engineering to address this problem.
Does this decision help you achieve your goal?

○ A. Yes
○ B. No

Question 41
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You create a regression model with low RMSE and review the best model metrics.
Where on the residual histogram should the most frequently occurring residual values cluster for your model?

○ A.
1

○ B.
0.5

○ C.
0

○ D.
-1

○ E.
2

○ F.
-0.5

Question 42
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You need to create a new pipeline to train a regression model using Azure ML Designer. You ingest your data for the model and drop it on the canvas.
What module would you typically drag-and-drop next on the canvas?

○ A.
Train Model

○ B.
Normalize Data

○ C.
Select Columns in Dataset

○ D.
Split Data

○ E.
Clean Missing data

Question 43
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You trained your model and are ready to deploy.
What steps do you need to execute for a model deployment?
Select all that apply.

☐ A.
Test the service

☐ B.
Deploy inference pipeline

☐ C.
Create compute clusters

☐ D.
Create and test inference pipeline

☐ E.
Create inference clusters

☐ F.
Deploy training pipeline

Question 44
Unattempted
Domain: Describe fundamental principles of machine learning on Azure

You are creating a pipeline in Azure ML Designer. You need to add a module to execute the programming code. What languages can you use for code execution in Azure ML Designer? Please select all that apply.

☐ A.
C++

☐ B.
Java

☐ C.

Python

☐ D.
TypeScript

☐ E.
C#

☐ F.
R

☐ G.
JavaScript

Question 45
Unattempted
Domain: Describe features of computer vision workloads on Azure

Can you use the object detection model for product name identification?

○ A. Yes
○ B. No

Question 46
Unattempted
Domain: Describe features of computer vision workloads on Azure

You need to identify a person using 8 MB image files in PNG format.
Can you use the Person Identification function of Azure Face service for this purpose?

○ A. Yes
○ B. No

Question 47
Unattempted
Domain: Describe features of computer vision workloads on Azure

Please select all Azure Cognitive Face service functions.

☐ A.
Face Detection

☐ B.
Objects Detection

☐ C.
Find similar faces

☐ D.
Person Identification

E.
Brand Identification

F.
Face Verification

G.
Image Analysis

Question 48
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

You need to identify the key points of the document.
You decide to use LUIS.
Does this decision help you achieve your goal?

○ A. Yes
○ B. No

Question 49
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

You have a foreign text. You want to get a Wikipedia page for the place mentioned in one of the sentences.
What services will you use to achieve your goal?
Please select all that apply.

A.
Key Phrase Extraction

B.
Sentiment Analysis

C.
Translator Text

D.
Language Detection

E.
LUIS

F.
Entity Recognition

Question 50
Unattempted

Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

You need to create a language model.
What are the essential elements that you need to supply as data for your language model training?
Please select all that apply.

☐ A.
Verbs

☐ B.
Utterances

☐ C.
Intents

☐ D.
Subjects

☐ E.
Entities

☐ F.
Knowledge domains

Question 51
Unattempted
Domain: Describe features of Natural Language Processing (NLP) workloads on Azure

What APIs does Azure Speech service provide?
Select all that apply.

☐ A.
Speech Synthesis

☐ B.
Language Detection

☐ C.
Text-to-Speech

☐ D.
Text translation

☐ E.
Speech Recognition

☐ F.
Speech-To-Text

Question 52
Unattempted
Domain: Describe features of conversational AI workloads on Azure

People in your organization want to use internal Bot by Web and Microsoft Teams.
The lead developer decided to create a Web Bot and Microsoft Teams Bot.
Do you agree with this decision?

○ A. Yes

○ B. No

Question 53
Unattempted
Domain: Describe features of conversational AI workloads on Azure

What are the three main components you need to use in order to build a Personal Virtual Assistant?

☐ A.
Azure Speech

☐ B.
Bot Framework

☐ C.
Text Analytics

☐ D.
Knowledge base

☐ E.
Computer Vision Service

☐ F.
Azure Bot Service

Question 54
Unattempted
Domain: Describe features of conversational AI workloads on Azure

What service provides a user interface for a Conversation AI agent?

○ A.
Azure Speech

○ B.
Bot Framework

○ C.
QnA Maker

○ D.
Azure Bot Service

○ E.
Computer Vision Service

Question 55
Unattempted
Domain: Describe features of conversational AI workloads on Azure

What are the two models of Bot integration with customer support service?

☐ A.
Bot as a Personal Assistant

☐ B.
Bot as an agent

☐ C.
Integrated Bot

☐ D.
Bot as a proxy

☐ E.
Standalone Bot