Practice Test 3

Question 1
Unattempted

Domain: Describe AI workloads and considerations

What is the name of the common AI service that provides 24 by 7 monitoring of the customer's time-series data for possible data irregularities?

○ A.
Machine Learning

○ B.
Anomaly Detection

○ C.
Computer Vision

○ D.
Natural Language Processing

○ E.
Conversational AI

○ F.
Automated Machine Learning

Question 2
Unattempted

Domain: Describe AI workloads and considerations

What is the name of the responsible AI principle that directs AI solutions design to include resistance to harmful manipulation?

○ A.
Privacy and security

○ B.
Transparency

○ C.
Inclusiveness

○ D.
Accountability

○ E.
Reliability and safety

○ F.
Fairness

Question 3
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

Select all models that are part of Supervised ML?

☐ A.
Regression model

☐ B.
Association

☐ C.
Classification Model

☐ D.
Clustering Model

☐ E.
Anomaly Detection

Question 4
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You need to train and test your 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 normalize your data to address this problem.
Does this decision help you achieve your goal?

○ **A. Yes**
○ **B. No**

Question 5
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

What is the ideal value for AUC?

○ A.
2

○ B.
0.5

○ C.
0

○ D.
0.1

○ E.
1.0

○ F.
0.75

Question 6
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

What metrics does Azure ML use for the evaluation of the regression models?
Select all that apply.

☐ A.
Root Mean Squared Error (RMSE)

☐ B.
Accuracy

☐ C.
Number of Points

☐ D.
Mean Absolute Error (MAE)

☐ E.
Combined Evaluation

☐ F.
Coefficient of Determination

☐ G.
Recall

Question 7
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

What are the three main authoring tools on the Azure ML Studio home screen?

☐ A.
Notebooks

☐ B.
Datasets

☐ C.
Designer

☐ D.
Experiments

☐ E.
Compute

☐ F.
Automated ML

☐ G.
Pipelines

Question 8
Unattempted

Domain: Describe features of computer vision workloads on Azure

Please select all examples of image classification technique applications.

☐ A.
Detecting tumors on X-ray images

☐ B.
Recognizing text in images

☐ C.
Visual product search

☐ D.
Face recognition

☐ E.
Disaster investigation

☐ F.
Entity recognition

Question 9
Unattempted

Domain: Describe features of computer vision workloads on Azure

You have a picture with two cats in front of a car and a bus, and three trees in the background. How many classes will semantic segmentation identify in this picture?

○ A.
3

○ B.
4

○ C.
7

○ D.
5

○ E.
8

Question 10
Unattempted

Domain: Describe features of computer vision workloads on Azure

You are using Analyze image API to obtain image information. The API response includes a likelihood that the image is one of two content types.
What are these types?

☐ A.
Color Picture

☐ B.
Clip Art

☐ C.
Photo

☐ D.
Painting

☐ E.
Line drawing

☐ F.
Black and white picture

Question 11
Unattempted

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

You are using Text Analytics Entity Recognition API to analyze the following sentence:" After Peter met Sara at Microsoft headquarters in Paris, they visited the Eiffel tower."
How many entities with the category "Location" should you expect in the API response?

○ A.
0

○ B.
1

○ C.
2

○ D.
3

○ E.
4

Question 12
Unattempted

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

What are the four resources that you need to use to call Text Analytics API endpoint?

☐ A.
recognize

☐ B.
keyphrases

☐ C.
translate

☐ D.
entities

☐ E.
languages

☐ F.
detect

☐ G.
sentiment

Question 13
Unattempted

Domain: Describe features of conversational AI workloads on Azure

You need to make your organization's auto phone attendant to read telephone voice menus in humanlike voices. You decided to use the Standard voice for your solution.

Does this decision help you achieve your goal?

○ **A. Yes**
○ **B. No**

Question 14
Unattempted

Domain: Describe features of conversational AI workloads on Azure

What are the examples of Conversation AI services?
Please select all that apply.

☐ A.
Online chat application

☐ B.
Phone answering machine

☐ C.
Web chat AI agent

☐ D.
Email service

☐ E.
A smart home device that can answer questions and act on commands

☐ F.
Text messaging service

Question 15
Unattempted

Domain: Describe features of conversational AI workloads on Azure

The customer service of your company spends a lot of time answering the same questions. They asked you to help them automate this process. They provided you with a Microsoft Excel (*.xlsx) document with frequently asked questions and typical answers. What service will you use to create a knowledge base from this document?

○ A.
Azure Bot Service

○ B.
Custom vision

○ C.
Text Analytics

○ D.
QnA Maker

○ E.
LUIS

Question 16
Unattempted

Domain: Describe AI workloads and considerations

Which of the following are NOT the main features and capabilities of Computer Vision?
Please select all options that apply.

☐ A.
Anomaly Detection

☐ B.
Image classification

☐ C.
Automated machine learning

☐ D.
Object Detection

☐ E.
Text Analytics

☐ F.
Semantic segmentation

☐ G.
Optical character recognition

Question 17
Unattempted

Domain: Describe AI workloads and considerations

What are Azure Cognitive services that you can use to build Conversation AI solutions?
Please select all options that apply.
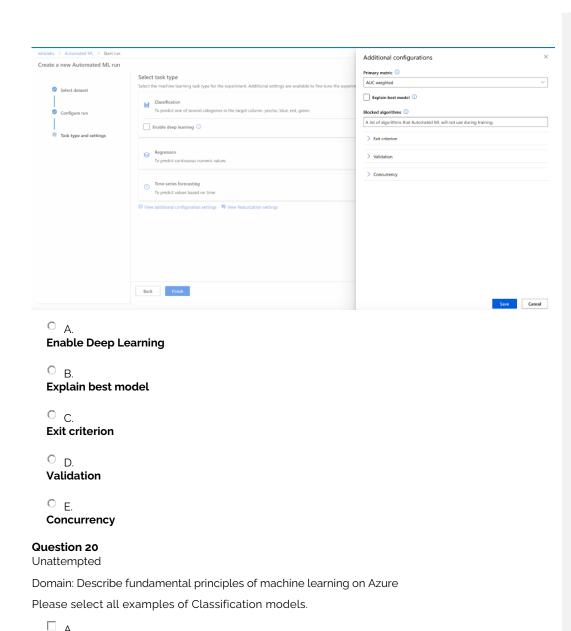
☐ A.
Text Analytics

☐ B.
QnA Maker

☐ C.

LUIS

☐ D.
Object Detection

☐ E.
Azure Bot Service

☐ F.
Speech

Question 18
Unattempted

Domain: Describe AI workloads and considerations

What is the example of the responsible AI Privacy and security principle when users are running an AI solution from their devices?

○ A.
Secure data from the devices on the server where the model runs

○ B.
Providing statement about the use of data

○ C.
Deleting the data on the servers after model run

○ D.
Running models on the device without removing any data

○ E.
Checking the data on vulnerabilities

Question 19
Unattempted

Domain: Describe AI workloads and considerations

What additional configuration reflects the responsible AI Transparency principle when creating a new Automated ML run in Azure ML Studio?

○ A.
Enable Deep Learning

○ B.
Explain best model

○ C.
Exit criterion

○ D.
Validation

○ E.
Concurrency

Question 20
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

Please select all examples of Classification models.

☐ A.
Predicting stock price based on earnings report

☐ B.
Bank's assessment of the customer ability to pay back the loan

☐ C.
Defining marketing groups by similar buying habits

□ D.
Monitoring time-series data for supervised anomaly detection

□ E.
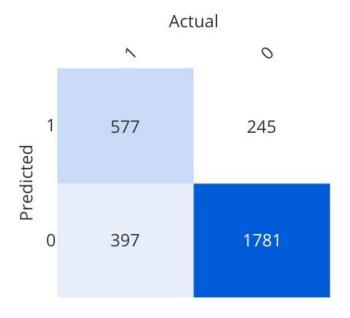**Predicting the score of the game**

□ F.
Reading text in images

Question 21
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You created a classification model. Here is the confusion matrix for this model:

What is the expression for model precision value calculation?

○ A.
577/(577+397)

○ B.
(577+1781)/(577+245+397+1781)
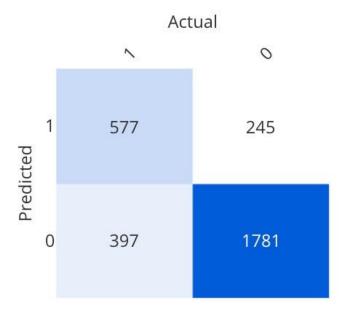
○ C.
577/(577+245)

○ D.
397/(397+577)

○ E.
1781/(1781+245)

Question 22
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You created a classification model. Here is the confusion matrix for this model:

What is the name of the metric that uses TP/(TP+FN) expression for its value calculation?

○ A.
Accuracy

○ B.
Precision

○ C.
Recall

○ D.
F1 Score

○ E.
Selectivity

Question 23
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

What are the two data sources for the Import Data module in the Azure ML Designer?

☐ A.
Split data

☐ B.
Datastore

☐ C.
Local files

☐ D.
URL via HTTP

☐ E.
Open Datasets

☐ F.
Azure SQL Database

Question 24
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

What metrics does Azure ML use for the evaluation of classification models?
Select all that apply.

☐ A.
Root Mean Squared Error (RMSE)

☐ B.
Accuracy

☐ C.
Number of Points

☐ D.
Precision

☐ E.
Combined Evaluation

☐ F.
Coefficient of Determination

☐ G.
Recall

Question 25
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You are creating a Compute cluster for the production environment. You set the maximum number of nodes to 5. What should be the value for the minimum number of nodes?

○ A.
5

○ B.
0

○ C.
2

○ D.
1

○ E.
3

○ F.
4

Question 26
Unattempted

Domain: Describe features of computer vision workloads on Azure

Application scans image and immediately returns the following information: regions, lines for each region, and words for each line of text.
What Computer Vision API does the application use for image scan?

○ A.
Read

○ B.
NLP

○ C.
OCR

○ D.
Text Analytics

○ E.
LUIS

Question 27
Unattempted

Domain: Describe features of computer vision workloads on Azure

Please select all face emotion attributes that Azure Cognitive Face service provides information for.

☐ A.
hate

☐ B.
fear

☐ C.
smile

☐ D.
contempt

☐ E.
sparkle

☐ F.
surprise

☐ G.
neutral

Question 28
Unattempted

Domain: Describe features of computer vision workloads on Azure

What are the three metrics that help evaluate custom vision model performance?

☐ A.

Accuracy

☐ B.
Number of Points

☐ C.
Precision

☐ D.
Recall

☐ E.
Mean Absolute Error (MAE)

☐ F.
Average Precision (AP)

Question 29
Unattempted

Domain: Describe features of computer vision workloads on Azure

What are two automated document processing models that Form Recognizer supports?

☐ A.
Standard cognitive model

☐ B.
Custom model

☐ C.
Auto OCR model

☐ D.
A pre-build receipt model

☐ E.
Custom vision

Question 30
Unattempted

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

What markup language will you use for the control of Speech Synthesis output for your phone auto attendant?

○ A.
HTML

○ B.
SQL

○ C.
SSML

○ D.
JSON

○ E.
TeX

Question 31
Unattempted

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

Please select two Translator Text API options that you can use to fine-tune the results.

☐ A.
Speech Translation

☐ B.
Selective Translation

☐ C.
Text-to-speech

☐ D.
Profanity filtering

☐ E.
Semantic Translation

Question 32
Unattempted

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

You need to create a Language Understanding Web App Bot. You decided to use the Basic Bot template.
Does this decision help you achieve your goal?

○ **A. Yes**
○ **B. No**

Question 33
Unattempted

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

What are the two default scenarios for Azure Speech-to-Text service?

☐ A.
Conversational

☐ B.
Recognition

☐ C.
Dictation

☐ D.
Acoustics

☐ E.
Pronunciation

Question 34
Unattempted

Domain: Describe features of conversational AI workloads on Azure

You want to add Web Chat control to your website. You created a bot using Azure Bot Service. What are two steps you need to do before adding a bot control to your production website?

☐ A.
Create a Knowledge base

☐ B.
Obtain bot's secret

☐ C.
Create a QnA application

☐ D.
Generate token

☐ E.
Add additional channels

Question 35
Unattempted

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

You need to create a Web Bot using the Azure portal. You have to choose a bot template. What are two SDK languages you can select for the bot template?

☐ A.
C++

☐ B.
Node.js

☐ C.
Python

☐ D.
C#

☐ E.
Java

Question 36
Unattempted

Domain: Describe AI workloads and considerations

What Machine Learning feature helps people without any data science experience create an Azure ML model from data?

○ A.
Azure Machine Learning designer

○ B.
Pipelines

○ C.
Automated machine learning

○ D.
Object Detection

○ E.
Anomaly Detection

○ F.
Text Analytics

○ G.
Data and compute management

Question 37
Unattempted

Domain: Describe AI workloads and considerations

What is the name of the Natural Language Processing service that enables language interaction between users and Conversational AI agents?

○ A.
Text Analytics

○ B.
QnA Maker

○ C.
LUIS

○ D.
Azure Bot Service

○ E.
Translator Text

○ F.
Automated machine learning

Question 38
Unattempted

Domain: Describe AI workloads and considerations

You created an AI solution that screens and selects applicants for the jobs. Your AI solution treats all applicants based only on their professional qualifications.
What responsible AI guiding principle does your solution follow?

○ A.
Transparency

○ B.
Reliability and safety

○ C.
Fairness

○ D.
Inclusiveness

○ E.
Privacy and security

○ F.
Accountability

Question 39
Unattempted

Domain: Describe AI workloads and considerations

You need to meet the defined legal and ethical standards in your AI solution.
Does it mean that you follow the Transparency guiding principle of responsible AI?

○ **A. Yes**
○ **B. No**

Question 40
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

Your company created a new mobile phone. You need to define a price range (0 - low cost to 3 - very high cost) for the phone. You collected technical and sales data for the phones on the market. Now you are ready to train your model. Here is your train dataset:

Battery power	Clock speed	Dual SIM	Color	Internal memory	Price range
842	2.2	0	Black	7	1
1021	0.5	1	Black	53	2
563	0.5	1	Black	41	2
615	2.5	0	Black	10	2
1821	1.2	0	Black	44	1
1859	0.5	1	Black	22	1
1821	1.7	0	Black	10	3
1954	0.5	1	Black	24	0
1445	0.5	0	Black	53	0
509	0.6	1	Black	9	0

What type of model will you train?

○ A.
Regression model

○ B.
Classification model

○ C.
Clustering model

○ D.
Unsupervised model

Question 41
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You train the ML model with an unlabeled dataset.
What type of model are you creating?
Select all that apply.

☐ A.
Classification model

☐ B.
Unsupervised ML model

☐ C.
Supervised ML model

☐ D.
Clustering model

☐ E.
Regression model

Question 42
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

Your company created a new mobile phone. You need to define a price range (0 - low cost to 3 - very high cost) for the phone. You collected technical and sales data for the phones on the market and ready to train your model. Here is your train dataset:

Battery power	Clock speed	Dual SIM	Color	Internal memory	Price range
842	2.2	0	Black	7	1
1021	0.5	1	Black	53	2
563	0.5	1	Black	41	2
615	2.5	0	Black	10	2

1821	1.2	0	Black	44	1
1859	0.5	1	Black	22	1
1821	1.7	0	Black	10	3
1954	0.5	1	Black	24	0
1445	0.5	0	Black	53	0
509	0.6	1	Black	9	0

What will be the label for this model?

○ A.
Battery power

○ B.
Clock speed

○ C.
Dual SIM

○ D.
Color

○ E.
Internal memory

○ F.
Price Range

Question 43
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You are using two-class logistic regression algorithm to train your model.
What type of model are you creating?

○ A.
Regression Model

○ B.
Classification Model
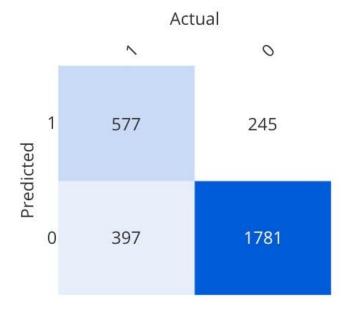
○ C.
Clustering Model
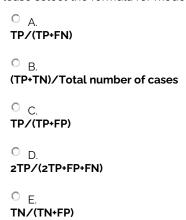
○ D.

Unsupervised Modeling

Question 44
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You created a classification model. Here is the confusion matrix for this model:

Please select the formula for model accuracy calculation.

○ A.
TP/(TP+FN)

○ B.
(TP+TN)/Total number of cases

○ C.
TP/(TP+FP)

○ D.
2TP/(2TP+FP+FN)

○ E.
TN/(TN+FP)

Question 45
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

Your company created a new mobile phone. You need to define a price range (0 - low cost to 3 - very high cost) for the phone. You collected technical and sales data for the phones on the market and ready to train your model. Here is your train dataset:

Battery power	Clock speed	Dual SIM	Color	Internal memory	Price range
842	2.2	0	black	7	1
1021	0.5	1	black	53	2
563	0.5	1	black	41	2
615	2.5	0	black	10	2
1821	1.2	0	black	44	1
1859	0.5	1	black	22	1
1821	1.7	0	black	10	3
1954	0.5	1	black	24	0
1445	0.5	0	black	53	0
509	0.6	1	black	9	0

What column will you discard from the final dataset during feature selection?

○ A.
Battery power

○ B.
Clock speed

○ C.
Dual SIM

○ D.
Color

○ E.
Internal memory

○ F.
Price Range

Question 46
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

Your company created a new mobile phone. You need to define a price range (0 - low cost to 3 - very high cost) for the phone. You collected technical and sales data for the phones on the market and ready to train your model. Here is your train dataset:

Battery power	Clock speed	Dual SIM	Color	Internal memory	Price range
842	2.2	0	black	7	1
1021	0.5	1	black	53	2
563	0.5	1	black	41	2
615	2.5	0	black	10	2
1821	1.2	0	black	44	1
1859	0.5	1	black	22	1
1821	1.7	0	black	10	3
1954	0.5	1	black	24	0
1445	0.5	0	black	53	0
509	0.6	1	black	9	0

What data transformation modules will you use in Azure ML Designer before submitting your dataset for the training?
Please select all that apply.

☐ A.
Select Columns in Dataset

☐ B.
Partition and Sample

☐ C.
Normalize Data

☐ D.
Apply Math Operation

☐ E.
Split Data

Question 47
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

What metrics does Azure ML use for the evaluation of clustering models?
Select all that apply.

☐ A.
Root Mean Squared Error (RMSE)

☐ B.
Number of Points

☐ C.
Accuracy

☐ D.
Combined Evaluation

☐ E.
Precision

☐ F.
Coefficient of Determination

☐ G.
Average Distance to Cluster Center

Question 48
Unattempted

Domain: Describe fundamental principles of machine learning on Azure

You need to bring numeric features to the common scale in your dataset.
What Azure ML Designer module will you use for this purpose?

○ A.
Select Columns in Dataset

○ B.
Clean Missing Data

○ C.
Normalize Data

○ D.
Split Data

E.
Clip Values

Question 49
Unattempted

Domain: Describe features of computer vision workloads on Azure

Object detection model cannot detect objects less than…?

A.
3% of the image

B.
5% of the image

C.
7% of the image

D.
10% of the image

E.
15% of the image

Question 50
Unattempted

Domain: Describe features of computer vision workloads on Azure

Can Face service see face makeup in the person's face image?

A. Yes
B. No

Question 51
Unattempted

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

You are using Text Analytics Key Phrases API to analyze the following sentence: "Peter met Sara at Microsoft headquarters in Paris."
How many key phrase items should you expect in the API response?

A.
0

B.
2

○ C.
3

○ D.
4

○ E.
5

Question 52
Unattempted

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

You are using Text Analytics Sentiment API to analyze the following sentence:" Peter was surprised and very happy to meet Sara in Paris."
What sentiment value should you expect in the API response?

○ A.
neutral

○ B.
positive

○ C.
happy

○ D.
negative

○ E.
surprise

Question 53
Unattempted

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

You need to translate a short document into several languages. You decided to use Translator API.
Can you submit a text for the translation to all required languages in one request?

○ **A. Yes**
○ **B. No**

Question 54
Unattempted

Domain: Describe AI workloads and considerations

What is the main foundation for the Personal Digital Assistant?

○ A.
Azure Speech

○ B.
Bot Framework

○ C.
Computer Vision Service

○ D.
Text Analytics

○ E.
Automated Machine Learning

Question 55
Unattempted

Domain: Describe AI workloads and considerations

Can you create a multi-language QnA Maker resource?

○ **A. Yes**
○ **B. No**