

C1000-059^{Q&As}

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

What is used to scale large positive values during data cleaning?

- A. division by random numbers
- B. square
- C. logarithm
- D. subtract median

Correct Answer: A

QUESTION 2

Select the three computing languages that IBM Cloud Object Storage SDK supports. (Choose three.)

- A. Node.js
- B. Java
- C. PHP
- D. Swift
- E. Python
- F. C/C++

Correct Answer: ABE

Reference: <https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-gs-dev>

QUESTION 3

What are the various components that make up a time series data?

- A. trend, noise, covariance
- B. trend, noise, kurtosis
- C. trend, seasonality, causation
- D. trend, seasonality, noise

Correct Answer: D

QUESTION 4

What is an example of a supervised machine learning algorithm that can be applied to a continuous numeric response variable?

- A. linear regression
- B. k-means
- C. local outlier factor (LOF)
- D. naive Bayes

Correct Answer: A

Reference: <https://www.analyticsvidhya.com/blog/2017/09/common-machine-learning-algorithms/>

QUESTION 5

A neural network is composed of a first affine transformation (affine1) followed by a ReLU non-linearity, followed by a second affine transformation (affine2). Which two explicit functions are implemented by this neural network? (Choose two.)

- A. $y = \text{affine1}(\text{ReLU}(\text{affine2}(x)))$
- B. $y = \max(\text{affine1}(x), \text{affine2}(x))$
- C. $y = \text{affine2}(\text{ReLU}(\text{affine1}(x)))$
- D. $y = \text{affine2}(\max(\text{affine1}(x), 0))$
- E. $y = \text{ReLU}(\text{affine1}(x), \text{affine2}(x))$

Correct Answer: CD

QUESTION 6

What is meant by part-of-speech tagging in the context of text analytics?

- A. replaces words with synonyms, e.g. answer for reply
- B. translates word by word
- C. finds the root word
- D. determines the category of a word, e.g. nouns

Correct Answer: D

Reference: <https://www.freecodecamp.org/news/an-introduction-to-part-of-speech-tagging-and-the-hidden-markov-model-953d45338f24/>

QUESTION 7

DRAG DROP

What is the best step by step order for machine learning pipeline?

Select and Place:

Unordered Options

- data collection
- data cleaning
- feature extraction and/or dimensionality reduction
- model validation

Ordered Options

Correct Answer:

Unordered Options

Ordered Options

- data cleaning
- data collection
- model validation
- feature extraction and/or dimensionality reduction

QUESTION 8

What is a class of machine learning problems where the algorithm builds a mathematical model from a set of data that contains both the inputs and the desired outputs?

- A. unsupervised learning
- B. mentoring
- C. reinforcement learning
- D. supervised learning

Correct Answer: D

Reference: https://en.wikipedia.org/wiki/Machine_learning

QUESTION 9

Which IBM Watson Machine Learning deployment method offers the ultimate flexibility in deploying a machine learning model?

- A. Watson Machine Learning Python client
- B. Watson Machine Learning FORTRAN client
- C. Watson Studio Project
- D. Watson Machine Learning REST API

Correct Answer: D

Reference: <https://neptune.ai/blog/best-machine-learning-as-a-service-platforms-mlaas>

QUESTION 10

What is the technique called for vectorizing text data which matches the words in different sentences to determine if the sentences are similar?

- A. Cup of Vectors
- B. Box of Lexicon
- C. Sack of Sentences
- D. Bag of Words

Correct Answer: D

Reference: <https://medium.com/@adriensieg/text-similarities-da019229c894>

QUESTION 11

Which distance is applied for multivariate outlier detection?

- A. Minkowski distance
- B. Manhattan distance
- C. Mahalanobis distance
- D. Euclidean distance

Correct Answer: C

Reference: <https://core.ac.uk/download/pdf/233075917.pdf>

QUESTION 12

A data scientist is exploring transaction data from a chain of stores with several locations. The data includes store number, date of sale, and purchase amount. If the data scientist wants to compare total monthly sales between stores, which two options would be good ways to aggregate the data? (Choose two.)

- A. Find the sum of the transaction prices
- B. Select the largest transaction amount by month and store
- C. Write a GROUP BY query
- D. Plot a time series plot of transaction amounts
- E. Generate a pivot table

Correct Answer: BD

QUESTION 13

Considering one ML application is deployed using Kubernetes, its output depends on the data which is constantly stored in the model, if needing to scale the system based on available CPUs, what feature should be enabled?

- A. persistent storage
- B. vertical pod autoscaling
- C. horizontal pod autoscaling
- D. node self-registration mode

Correct Answer: A

QUESTION 14

In which example would recall be preferred over precision?

- A. recall is always preferred
- B. identify suitable candidates for a job
- C. detection of malignant tumors
- D. book recommendation

Correct Answer: C

Reference: <https://developers.google.com/machine-learning/crash-course/classification/precision-and-recall>

QUESTION 15

A data analyst creates a term-document matrix for the following sentence:

I saw a cat, a dog and another cat.

Assuming they used a binary vectorizer, what is the resulting weight for the word cat?

- A. 0
- B. 1
- C. 3
- D. 2

Correct Answer: B

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