



# E20-007<sup>Q&As</sup>

Data Science and Big Data Analytics

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**QUESTION 1**

You are using k-means clustering to classify heart patients for a hospital. You have chosen Patient Sex, Height, Weight, Age and Income as measures and have used 3 clusters. When you create a pair-wise plot of the clusters, you notice that there is significant overlap between the clusters. What should you do?

- A. Identify additional measures to add to the analysis
- B. Remove one of the measures
- C. Decrease the number of clusters
- D. Increase the number of clusters

Correct Answer: C

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**QUESTION 2**

What is an example of a null hypothesis?

- A. that a newly created model does not provide better predictions than the currently existing model
- B. that a newly created model provides a prediction of a null sample mean
- C. that a newly created model provides a prediction of a null population mean
- D. that a newly created model provides a prediction that will be well fit to the null distribution

Correct Answer: A

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**QUESTION 3**

Consider the following itemsets: (hat, scarf, coat)

(hat, scarf, coat, gloves)

(hat, scarf, gloves)

(hat, gloves)

(scarf, coat, gloves)

What is the confidence of the rule (hat, scarf) => gloves?

- A. 40%
- B. 50%
- C. 60%
- D. 66%



Correct Answer: D

#### QUESTION 4

Refer to the exhibit.

Table A: Term inverse document frequencies

	Solid	State	Disk
IDF	2	1.5	0.5

Table B: Term per-document frequencies

Document	Tf		
	Solid	State	Disk
A	0.1	0.1	0.1
B	0.2	0.2	0.1
C	0.1	0.1	0.5
D	0.1	0.3	0.1

Click on the calculator icon in the upper left corner. An analyst is searching a corpus of documents for the topic "solid state disk". In the Exhibit, Table A provides the inverse document frequency for each term across the corpus. Table B provides each term's frequency in four documents selected from corpus. Which of the four documents is most relevant to the analyst's search?

- A. Document B
- B. Document A
- C. Document C
- D. Document D

Correct Answer: A



### QUESTION 5

Trend, seasonal, and cyclical are components of a time series. What is another component?

- A. Irregular
- B. Linear
- C. Quadratic
- D. Exponential

Correct Answer: A

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