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**Vendor:**EC-COUNCIL

**Exam Code:**E20-007

**Exam Name:**Data Science and Big Data Analytics

**Version:**Demo

### QUESTION 1

Before you build an ARMA model, how can you tell if your time series is weakly stationary?

- A. There appears to be a constant variance around a constant mean.
- B. The mean of the series is close to 0.
- C. The series is normally distributed.
- D. There appears to be no apparent trend component.

Correct Answer: A

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### QUESTION 2

You are using the Apriori algorithm to determine the likelihood that a person who owns a home has a good credit score. You have determined that the confidence for the rules used in the algorithm is  $> 75\%$ . You calculate lift = 1.011 for the rule, "People with good credit are homeowners". What can you determine from the lift calculation?

- A. Support for the association is low
- B. Leverage of the rules is low
- C. The rule is coincidental
- D. The rule is true

Correct Answer: C

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### QUESTION 3

Which process in text analysis can be used to reduce dimensionality?

- A. Stemming
- B. Parsing
- C. Digitizing
- D. Sorting

Correct Answer: A

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### QUESTION 4

Refer to the exhibit Consider the training data set shown in the exhibit. What are the classification ( $Y = 0$  or  $1$ ) and the probability of the classification for the tuple  $X(1, 0, 0)$  using Naive Bayesian classifier?

X1	X2	X3	Y
1	1	1	0
1	1	0	0
0	0	0	0
0	1	0	1
1	0	1	1
0	1	1	1

- A. Classification  $Y = 0$ , Probability =  $4/54$
- B. Classification  $Y = 1$ , Probability =  $4/54$
- C. Classification  $Y = 0$ , Probability =  $1/54$
- D. Classification  $Y = 1$ , Probability =  $1/54$

Correct Answer: A

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#### QUESTION 5

What is the purpose of the process step "parsing" in text analysis?

- A. imposes a structure on the unstructured/semi-structured text for downstream analysis
- B. performs the search and/or retrieval in finding a specific topic or an entity in a document
- C. executes the clustering and classification to organize the contents
- D. computes the TF-IDF values for all keywords and indices

Correct Answer: A

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**QUESTION 6**

Which data asset is an example of semi-structured data?

- A. XML data file
- B. Database table
- C. Webserver log
- D. News article

Correct Answer: A

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**QUESTION 7**

In which lifecycle stage are initial hypotheses formed?

- A. Discovery
- B. Model planning
- C. Model building
- D. Data preparation

Correct Answer: A

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**QUESTION 8**

When is a Wilcoxon Rank-Sum test used?

- A. When an assumption about the distribution of the populations cannot be made
- B. When the data can be easily sorted
- C. When the populations represent the sums of other values
- D. When the data cannot be easily sorted

Correct Answer: A

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**QUESTION 9**

Which R data structure allows elements to have different data types?

- A. List

- B. Vector
- C. Matrix
- D. Array

Correct Answer: A

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### QUESTION 10

You are attempting to find the Euclidean distance between two centroids:

Centroid A's coordinates:  $(X = 2, Y = 4)$

Centroid B's coordinates  $(X = 8, Y = 10)$

Which formula finds the correct Euclidean distance?

- A.  $\text{SQRT}((2-8)^2+(4-10)^2)$  or 8.49
- B.  $\text{SQRT}(((2-8) \times 2) + ((4-10) \times 2))$  or 12.17
- C.  $((2-8)^2+(4-10)^2)$  or 72
- D.  $((2-8) \times 2 + (4-10) \times 2)$  or 148

Correct Answer: A

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### QUESTION 11

You are testing two new weight-gain formulas for puppies. The test gives the results: Control group: 1% weight gain  
Formula A. 3% weight gain

Formula B. 4% weight gain A one-way ANOVA returns a p-value = 0.027 What can you conclude?

- A. Either Formula A or Formula B is effective at promoting weight gain.
- B. Formula B is more effective at promoting weight gain than Formula A.
- C. Formula A and Formula B are both effective at promoting weight gain.
- D. Formula A and Formula B are about equally effective at promoting weight gain.

Correct Answer: A

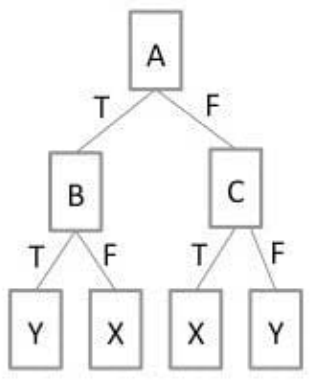
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### QUESTION 12

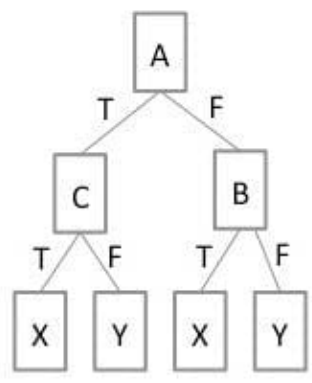
Based on the exhibit, the table shows the values for the input Boolean attributes A, B, and

- C. In addition, the exhibit shows the values for the output attribute "class".

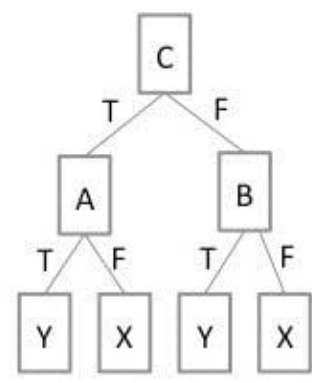
A	B	C	CLASS
T	T	T	X
T	T	F	Y
T	F	T	X
F	F	F	Y
F	T	T	X
F	F	T	Y



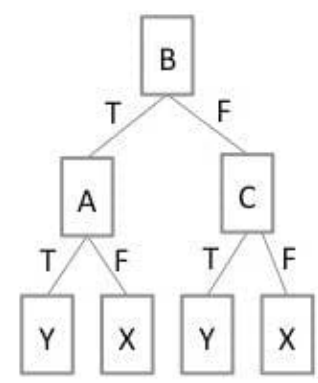
Tree A



Tree B



Tree C



Tree D

Which decision tree is valid for the data?

- A. Tree A
- B. Tree B
- C. Tree C
- D. Tree D

Correct Answer: B