# SAS Institute A00-226

SAS Text Analytics, Time Series, Experimentation and Optimization



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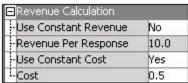
# **Product Version**

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# **Latest Version: 6.0**

## Question: 1

Refer to the exhibit below from an Incremental Response node from SAS Enterprise Miner.



What can be inferred from the properties above? Response:

- A. The expected revenue for individual customers is \$10.
- B. The expected revenue for individual customers is \$9.50.
- C. The expected revenue for individual customers is the estimated outcome from the model.
- D. The input data set contains an expected revenue variable, with values for individual customers.

**Answer: C** 

# Question: 2

What is a primary value of text mining as applied to forensic linguistics analysis? Response:

- A. Determining the native language of a suspect can help identify where a suspect may reside.
- B. Word frequencies of written or spoken communication can help discriminate between suspects.
- C. The usage of certain emotion-based nouns, verbs, and adjectives indicate criminal pathology.
- D. Determines if the written or spoken communication is the subject's second language.

**Answer: B** 

# Question: 3

What is desirable in experimental design? Response:

- A. Replication for individual factors.
- B. Removal of nuisance terms from the model.
- C. Randomization across covariates levels.
- D. More levels for each factor.

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# Question: 4

What distinguishes a deterministic linear trend from other local linear trends? Response:

- A. A deterministic linear trend is always linear; other local linear trends are only linear over certain intervals.
- B. A deterministic linear trend does not contain a seasonal component; other local linear trends do contain a seasonal component.
- C. A deterministic trend has a predetermined slope; other local linear trends do not have a predetermined slope.
- D. A deterministic linear trend shows the same slope at all time periods; other local linear trends do not show the same slope at all time periods.

**Answer: D** 

## **Question: 5**

Which measure assesses predictive accuracy? Response:

A. AIC

B. SBC

C. MAE

D. Ljung-Box

**Answer: C** 

#### Question: 6

You have just built an optimization model with two constraints, Con1 and Con2. Below is partial code and output.

solve with LP;

print Con1.dual Con2.dual;

Con1.DUAL - 8

Con2.DUAL - 0

A binding constraint is a constraint that is equal to its limit. Which statement is true regarding Con1 and Con2?

Response:

- A. Both Con1 and Con2 are binding constraints.
- B. Both Con1 and Con2 are non-binding constraints.
- C. Con1 is a non-binding constraint and Con2 is a binding constraint.
- D. Con1 is a binding constraint and Con2 is a non-binding constraint.

**Answer: D** 

## **Question: 7**

Why are iterative search algorithms used for solving non-linear programming (NLP) problems? Response:

- A. NLP are not convex.
- B. A unique, optimal solution is not guaranteed.
- C. The gradient of the objective is un-bounded.
- D. NLP have only one local optimum.

**Answer: B** 

## **Question: 8**

In the Text Topic node, the Singular Value Decomposition (SVD) dimensions are rotated. What is the purpose of this rotation? Response:

- A. To interpret each dimension with a set of terms.
- B. To determine the number of topics that are discovered.
- C. To ensure the topics are relevant to your interests.
- D. To avoid producing topics that are too similar

**Answer: A** 

#### **Question: 9**

After creating a data source within the SAS Code node, which macro is used to modify the metadata of the data source (specifically changing the roles and levels for each variable)? Response:

- A. %EM\_REGISTER
- B. %EM DECDATA
- C. %EM\_PROPERTY
- D. %EM METACHANGE

**Answer: D** 

# Question: 10

What is an example of time series forecasting? Response:

- A. A dried fruit company sends out marketing postcards and models who will respond.
- B. A glue manufacturer wants to know how long it will take for its glue to dry.
- C. A fire department wants to know how many fires it will likely need to fight during the holidays, so that it can staff accordingly.
- D. A hospital wants to know how long its patients will survive after open heart surgery so that adverse effects can be caught early.

**Answer: C** 

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