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**QUESTION 1**

Which statistic, calculated from a validation sample, can help decide which model to use for prediction of a binary target variable?

- A. Adjusted R Square
- B. Mallows's Cp
- C. Chi Square
- D. Average Squared Error

Correct Answer: D

QUESTION 2

Within PROC GLM, the interaction between the two categorical predictors, Income and Gender, was shown to be significant. An item store was saved from the GLM analysis.

Which statement from PROC PLM would test the significance of Gender within each level of Income and adjust for multiple tests?

- A. sliceby Gender / adjust=tukey;
- B. slice Income*Gender / sliceby=Gender adjust=tukey;
- C. slice Income*Gender / sliceby=Income adjust=tukey;
- D. sliceby Income / adjust=tukey;

Correct Answer: D

QUESTION 3

An analyst investigates Region (A, B, or C) as an input variable in a logistic regression model.

The analyst discovers that the probability of purchasing a certain item when Region = A is 1.

What problem does this illustrate?

- A. Collinearity
- B. Influential observations
- C. Quasi-complete separation
- D. Problems that arise due to missing values

Correct Answer: C

**QUESTION 4**

What is the default method in the LOGISTIC procedure to handle observations with missing data?

- A. Missing values are imputed.
- B. Parameters are estimated accounting for the missing values.
- C. Parameter estimates are made on all available data.
- D. Only cases with variables that are fully populated are used.

Correct Answer: D

QUESTION 5

The standard form of a linear regression model is:

$$Y = \beta_0 + \beta_1 X + \varepsilon$$

Which statement best summarizes the assumptions placed on the errors?

- A. The errors are correlated, normally distributed with constant mean and zero variance.
- B. The errors are correlated, normally distributed with zero mean and constant variance.
- C. The errors are independent, normally distributed with constant mean and zero variance.
- D. The errors are independent, normally distributed with zero mean and constant variance.

Correct Answer: D

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