VPC2 C207 Data-Driven Decision Making Version 1

Section: IT & Computer Studies • **Total Questions:** 10 • **Format:** Verified Q&A

1. A financial analyst theorizes that commute × increase as the percentage of land availability for homes in a city decreases. To test this hypothesis, the analyst uses a regression analysis to explore how land availability predicts commute time. What does land availability represent in this regression?

(A) It is the dependent variable.
(B) It is the independent variable.
(C) It is the target variable.
(D) It is a control.

2. What must be analyzed using powerful analytic tools?

(A) Inferential statistics
(B) Big data
(C) Data analysis results
(D) Small, independent data sets

3. A county government wants to start a cost-effective recycling program. How can the county apply data analytic approaches to attain this goal?

(A) By conducting best practices research regarding audit performance
(B) By aligning fund allocations with the number of department employees
(C) By analyzing budgetary impacts of county contracts
(D) By benchmarking similar strategies of other counties

4. What is a disadvantage of a key performance indicator (KPI)?

(A) It makes it difficult to use data-driven results to quantify performance.
(B) It focuses on long-term goals rather than short-term gains.
(C) It only accounts for quantitative measures.
(D) It only indicates what changes are statistically significant.

5. What is a statistical process control procedure for a drill manufacturer?

(A) Determining the different market segments for its drills

(B) Implementing collaborative planning forecasting and replenishment

(C) Forecasting future consumer demand for its drills

(D) Determining whether the weight of selected drills is within a tolerable range

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6. Which type of analytics classification uses experimental design and optimization to suggest a course of action?

(A) Predictive analytics

(B) Prescriptive analytics

(C) Diagnostic analytics

(D) Descriptive analytics

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7. What is a basic assumption of a z-score?

(A) The mean is equal to zero with a standard deviation of 1.

(B) Outlier data points are critical to a z-score calculation.

(C) Outlier data points must be eliminated from a z-score calculation.

(D) The mean is equal to zero with a standard deviation of 2.

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8. Which graphical display is used to examine the distribution of a data set with quartiles?

(A) Boxplot

(B) Pareto chart

(C) Bivariate chart

(D) Scatterplot

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9. What is the purpose of the quality management principle of dedication to fact-based decision-making?

(A) Increase loyalty from customers and suppliers.

(B) Increase the effectiveness from quality practices.

(C) Eliminate anything that does not add value.

(D) Reduce bias driven by increased trust in plans.

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10. What was the cumulative incidence rate during Year 2 at the university?

(A) 3.70%

(B) 10.34%

(C) 11.84%

(D) 17.37%