Assignment 3

The due date for submitting this assignment has passed. Due on 2018-02-14, 23:59 IST.

Submitted assignment

1) Which of the following is true about Visualization techniques?
   - (a) information that has been abstracted in some schematic form
   - (b) communicate information clearly and efficiently via statistical graphics, plots and information graphics
   - (c) communicate data or information by encoding it as visual objects contained in graphics
   - (d) All of the above

   **No, the answer is incorrect.**
   **Score: 0**

   **Accepted Answers:**
   (d) All of the above

2) Specialized visualization techniques include all except:
   - (a) Treemaps
   - (b) Map Charts
   - (c) Network graphs
   - (d) Box Plot

   **No, the answer is incorrect.**
   **Score: 0**

   **Accepted Answers:**
   (d) Box Plot

3) Which of visualization technique has quartile information?
   - (a) Scatter diagram
   - (b) Bar Chart
   - (c) Histogram
   - (d) Box Plot

   **No, the answer is incorrect.**
   **Score: 0**

   **Accepted Answers:**
   (d) Box Plot

4) Statement I: A heatmap is a graphical display of numerical data where color is used to denote values.
   Statement II: In a data mining context, heatmaps are especially useful for visualizing correlations tables
   Which of the following is true?
   - (a) Statement I is true and Statement II is false

   **Score: 0**

   **Accepted Answers:**
   (d) Box Plot
5) Statement I: A histogram represents the frequencies of all x values with a series of vertical connected bars. Statement II: Both boxplots and histograms display the entire distribution of a numerical variable. Which of the following is true?

- (a) Statement I is true and Statement II is false
- (b) Statement II is true and Statement I is false
- (c) Both the statements are true
- (d) None of the statement are true

No, the answer is incorrect. Score: 0
Accepted Answers: (c) Both the statements are true

6) Which of the following is a dimension reduction technique?

- (a) Sampling
- (b) Boxplot
- (c) Principal component analysis
- (d) Z - test

No, the answer is incorrect. Score: 0
Accepted Answers: (c) Principal component analysis

7) Why is dimensionality reduction useful?

- (a) To achieve parsimony
- (b) To avoid overfitting
- (c) It reduces processing time
- (d) All of the above

No, the answer is incorrect. Score: 0
Accepted Answers: (d) All of the above

8) Statement I: The central idea of principal component analysis (PCA) is to reduce the dimensionality of a data set consisting of a large number of variables. Statement II: Principal component analysis is only way to reduce the dimensionality of a data set. Which of the following is true?

- (a) Statement I is true and Statement II is false
- (b) Statement II is true and Statement I is false
- (c) Both the statements are true
- (d) None of the statement are true

No, the answer is incorrect. Score: 0
Accepted Answers: (a) Statement I is true and Statement II is false

9) Which of the following is not an objective of PCA?

- (a) Statement I is true and Statement II is false
(a) To reduce attribute space from a larger number of variables to a smaller number of variables
(b) To identify new meaningful underlying variables
(c) To convert a set of observations of possibly uncorrelated variables into a set of values of linearly correlated variables
(d) None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c) To convert a set of observations of possibly uncorrelated variables into a set of values of linearly correlated variables

10] Statement I: PCA seeks a linear combination of variables such that the maximum variance is extracted from the variables.
Statement II: PCA reduces attribute space from a larger number of variables to a smaller number of factors
Which of the following is true?

(a) Statement I is true and Statement II is false
(b) Statement II is true and Statement I is false
(c) Both the statements are true
(d) None of the statement are true

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c) Both the statements are true