Assignment 3

Due on 2019-08-10, 23:59:59 IST.

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Note: For the questions below, there will be at least one correct option.
Partial marks can be awarded to the correct option(s) only if the working option is chosen.

1. Data analysis can be helpful in:
   - Parameter estimation
   - Hypothesis testing
   - Model development and testing
   - Fault detection
   [No, the answer is incorrect, Select Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]
   [Non-asterisked Answer(s)]

2. The differences between Explanation & Conformity data analysis are:
   - The posterior data is dynamic type data analysis
   - The posterior data is Conformity type data analysis
   - Both types of analyses are the same
   [No, the answer is incorrect, Select Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]
   [Non-asterisked Answer(s)]

3. A doctor ran a diagnostic test on a patient and he found that the ECG graph resulting from the test showed some signs of concern. Which (what) of data analysis should the doctor use to determine the actual reason of the problem with good accuracy?
   - Predictive
   - Exploratory
   - Confirmatory
   - Non-asterisked Answer(s)
   [Yes, the answer is correct, Select Answer(s)]

4. Data files are basically classified as following:
   - Data with numeric data
   - Data with text data
   [Non-asterisked Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]

5. A sensory sensor is trimmed at the bottom of the cooling (oven) to measure the temperature of oven base. The sensor still does not function properly for some time and gives data with higher temperature values. The conductor can be seen from the probe side of the sensor.
   - The data should be corrected because there are no true data from the system but the malfunctioning one
   [No, the answer is incorrect, Select Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]
   [Non-asterisked Answer(s)]

6. The temperature of a body's temperature was recorded for some time and a temperature profile was generated as we see in the lecture. At a temperature profile can be seen using the following as a guide:
   - Non-asterisked Answer(s)
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]

7. In a statistical analysis of a data set, the y-value associated with a hypothesis test on the sample mean was found to be very low. The following decision can be made as a result:
   - The null hypothesis is supported and the acceptance
   - The null hypothesis is supported and the rejection
   - The null hypothesis has not been rejected
   - None of the above
   [No, the answer is incorrect, Select Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]
   [Non-asterisked Answer(s)]

8. The hypothesis test to be examined is an hypothesis test of multiple regression variables:
   - The hypothesis test is a one variable test
   - The hypothesis test is a multiple variable test
   - The hypothesis test is an hypothesis test of multiple regression variables
   - None of the above
   [No, the answer is incorrect, Select Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]
   [Non-asterisked Answer(s)]

9. Sketch flow models as the corpus of the following approaches to modeling:
   - Probabilistic approach
   - Functional approach
   - Graphical approach
   - Approaches based on data obtained from experiments
   [No, the answer is incorrect, Select Answer(s)]
   [Yes, the answer is correct, Select Answer(s)]

   [Asterisked Answer(s)]

10. Statistical models are best examined through experiments.
    [No, the answer is incorrect, Select Answer(s)]
    [Yes, the answer is correct, Select Answer(s)]

    [Asterisked Answer(s)]
    [Non-asterisked Answer(s)]

11. Statistical models are best examined through experiments.
    [No, the answer is incorrect, Select Answer(s)]
    [Yes, the answer is correct, Select Answer(s)]

    [Asterisked Answer(s)]
    [Non-asterisked Answer(s)]