Assignment 10

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

1. Choose the correct statement about work sampling:
   - (a) The size of any sample is determined by the number of observations (%)
   - (b) Accuracy of work sampling is determined by the number of observations
   - (c) The greatest number of observations, the greater the accuracy and greater the confidence

2. Match the terms with the correct statements:
   - Sample
     - (a) A subset of the population
   - Population
     - (b) The entire group of interest
   - Sample size
     - (c) The number of observations
   - Confidence level
     - (d) The probability of making a Type I error
   - Type I error
     - (e) The probability of making a Type II error
   - Type II error
     - (f) The probability of rejecting a true null hypothesis
   - Significance level
     - (g) The probability of failing to reject a false null hypothesis
   - Null hypothesis
     - (h) A statement about the population parameter
   - Alternative hypothesis
     - (i) A statement that contradicts the null hypothesis
   - Confidence interval
     - (j) The range of values within which the population parameter is expected to lie
   - Hypothesis testing
     - (k) The process of determining whether to reject the null hypothesis
   - Alpha level or level of significance
     - (l) The level of confidence at which the null hypothesis is tested
   - Beta level
     - (m) The level of confidence at which the null hypothesis is not rejected

3. The terms commonly used in work sampling are:
   - Sampling frame
   - Time study
   - Motion study
   - Measurement study
   - Interval sampling
   - Stratified sampling
   - None of the above

4. All the statements related to hypothesis testing are:
   - True
   - False
   - No, the answer is incorrect.
   - Accepted answers:
     - True

Week 11

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