Interactomics Week 12 Assignment

You are required to submit this assignment by the due date.

Due: 04-22, 20:59 EST.

1. What is the main problem with pathway enrichment?
   - Null hypotheses of pathway can be rejected using the pathway
   - Pathway enrichment provides a non-parametric test
   - Both a and b
   - Neither
   Accepted Answer: Both a and b
   Score: 1 point

2. What is the range of a score when data is normally distributed?
   - ±1 to 1
   - ±2 to 3
   - ±3 to 4
   Accepted Answer: ±3 to 4
   Score: 1 point

3. What is the score for understanding the data set?
   - Variability in the data set
   - Very low abundance of protein in some form
   - Protein expression is found in only a few samples
   Accepted Answer: All of the above
   Score: 1 point

4. Why is it necessary to ensure the data is normally distributed?
   - To evaluate the consistency of the data
   - To understand the behavior of the data
   - To perform statistical tests
   Accepted Answer: All of the above
   Score: 1 point

5. Which of the following is appropriate for interaction clustering?
   - Hierarchical clustering estimates cluster centroids
   - Hierarchical clustering clusters the data on the basis of new interaction
   - Hierarchical clustering helps in assigning each point to clusters
   Accepted Answer: All of the above
   Score: 1 point

6. Which of the following not a measure of central tendency?
   - Median
   - Average
   - Standard Error Mean
   Accepted Answer: Standard Error Mean
   Score: 1 point

7. What is the purpose of normalization in a data set?
   - To minimize size and maximum size
   - To maintain size and minimize size
   - To make the size and signal size
   Accepted Answer: Normalization has no relation with signal and noise
   Score: 1 point