Assignment 11

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

1) According to Sir Ronald Fisher what are the basic principle of "Design of Experiment"?
   - Randomisation
   - Replication
   - Interaction and Sequentially
   - Local Control
   - Blocking
   Score: 1
   Accepted Answers: Randomisation

   2) Statement 1: Replication is the doing the same experiment with same experimental condition all over again to estimate the experimental error or to estimate the mean response precisely.
   - True
   - False
   Score: 1
   Accepted Answers: True

   Statement 2: Randomization is a process of assigning the experiment randomly to experimental unit to remove the biasness of test condition.
   - True
   - False
   Score: 1
   Accepted Answers: True

   Statement 3: Blocking is the process of assigning the experiment to reduce the effect of nuisance factor and it is uncontrollable error.
   - True
   - False
   Score: 1
   Accepted Answers: True

   Which of the following statement is correct?
   
   - 162
   - 263
   - 183
   - 1,283
   
   Score: 1
   Accepted Answers: 1,283

   3) In the example of "optimize Nano Titanio production using microwave plasma synthesis" in the lecture Design of experiment the responses interest is: 1.4 point is to two (7% efficiency - 7% analysis) and the factors are same as 7 but the number of two factor interaction is 6 and three factor interaction is 3 then what should be the orthogonal design matrix?
   - 16
   - 18
   - 17
   - 12
   Score: 1
   Accepted Answers: 18

   4) A factorial experiment is done to discover the interaction between the factors. Let’s in a experiment three factor A, B and C with two level each low and high. The below figure are representative of interaction plot. What should be conclusion.

   - Factor A & B has interaction
   - Factor A & B has no interaction
   - Factor A & C has interaction
   - Factor B & C has interaction
   Score: 1
   Accepted Answers: Factor A & B has interaction

   5) Which is the following statement is not correct in reference to one factor at a time experimentation strategy?
   - Very only one factor or variable at a time while keeping others fixed.
   - It requires more number of experiment for same precision in response.
   - It does not allow the estimation of interaction between factors.
   - Based on output of preceding experiment determine the factor for next experiment.
   Score: 1
   Accepted Answers: Based on output of preceding experiment determine the factor for next experiment.