Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. **Due on 2018-09-05, 23:59 IST.**

1) Surrogates can be used to perform
   - a) Sensitivity analysis  
   - b) Optimization study  
   - c) Design space exploration  
   - d) All of the above

**No, the answer is incorrect.**

Score: 0

Accepted Answers:

- **d) All of the above**

2) In design process which of the following is used to avoid / remove bias
   - a) Replication  
   - b) Randomization  
   - c) Interaction  
   - d) None of the above

**No, the answer is incorrect.**

Score: 0

Accepted Answers:

- **b) Randomization**

3) In an experiment consisting of 3 factors with 2 levels each how many experiments are needed to study the effect of single factor and all interactions possible.
   - a) 8  
   - b) 0
4) System response can be influenced by design variable which is of the following type:

- a) Discrete
- b) Continuous
- c) Random
- d) All of the above

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

5) Which of the following approaches have the potential to capture interaction of variables:

- a) One Factor At a Time
- b) Orthogonal Array
- c) Trial and Error
- d) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) Orthogonal Array

6) In Morris method, large measure of spread of elementary effects with respect to ith variable indicates:

- a) Heavy influence of the variable
- b) Variable involved in interaction
- c) Response function is nonlinear in terms of ith variable
- d) b and/or c

No, the answer is incorrect.
Score: 0
Accepted Answers:
d) b and/or c

7) Latin Hypercube sampling operates on the basic philosophy of:

- a) Samples are stratified in some specified dimensions
- b) Samples are stratified in all dimensions
- c) No stratification
- d) Both b and c

No, the answer is incorrect.
Score: 0
Accepted Answers:
b) Samples are stratified in all dimensions