Assignment 3

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

Due on 2020-02-19, 23:59 IST.

1) Monte Carlo simulation is a technique which can only be used to study the long term behaviour of the system. Is this statement true or false?  
   ☐ True  ☐ False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   False

2) Choose the correct alternative from below:  
   Statement A: We must always build the simulation models from scratch.  
   Statement B: We should re-use the components of simulations to reduce the build time.  
   ☐ Statement A and Statement B are correct  
   ☐ Statement A is correct  
   ☐ Statement B is correct  
   ☐ None of these  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   Statement B is correct

3) While building an appropriate simulation model of a system, the modeler must consider everything about the system. Is this statement true or false?  
   ☐ True  ☐ False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   False

4) The profit in a business system varies from 210 units to 315 units. Calculate a scaled simulated value for the Monte-Carlo simulation model using random value as 0.72.  
   ☐ 201.5 units  
   ☐ 248.7 units  
   ☐ 297.1 units  
   ☐ 265.6 units  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   265.6 units

5) As per the discussion in illustrative example on Water tank, choose the correct option from below using following statements:  
   Statement I: The amount of water available at any particular instant is a discrete variable for the system model.  
   Statement II: We can create a discrete model if we consider the state of the tank as empty or overfill for designing the model.  
   ☐ Only Statement I is correct  
   ☐ Only Statement II is correct  
   ☐ Both Statement I and Statement II are correct  
   ☐ Statement I and Statement II are not correct  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   Only Statement II is correct