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NPTEL

reviewer3@nptel.iitm.ac.in ▼

Courses » Sustainability through Green Manufacturing Systems: An Applied Approach

Announcements **Course** Ask a Question Progress Mentor FAQ

Unit 4 - Week 2

Course outline

How to access the portal

Week 0

Week 1

Week 2

● Lecture 04: Introduction to Simulation

● Lecture 05: Introduction to Simulation Continued

● Lecture 06: Basic Statistical Concepts for Sustainable Manufacturing Analysis

● Lecture 07: Basic Statistical Concepts for Sustainable Manufacturing Analysis Continued

○ Quiz : Assignment 2

○ Solution:Assignment 2

○ WEEK 2 - 55558101

Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-09-12, 23:59 IST.**

1) In a simulation study of a complex system, the model gets evaluated numerically to find the **1 point** solution. Is this statement true or false?

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

2) Simulation is a: **1 point**

- Analytical solution
 Mathematical model
 Actual system
 Physical model

No, the answer is incorrect.
Score: 0

Accepted Answers:
Mathematical model

3) "Robots in a factory is an example of static simulation." The above statement is **1 point**

- True
 False

No, the answer is incorrect.
Score: 0

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Week 3

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- Interactions and overlaps with other systems
- Type of linkage with environment
- All of the above

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

5) In discrete event simulation, 'event list' means:

1 point

- Current value of simulation time
- Generate random variable
- Next time when each event type will occur
- Collection of state variables to describe system

No, the answer is incorrect.**Score: 0****Accepted Answers:***Next time when each event type will occur*

6) A fair coin is tossed for three times. Which among the following constitutes the sample space of all the outcomes?

2 points

- {HHH}{HHT}{HTH}{THH}{TTT}{TTH}{THT}{HTT}
- {HHH}{HHT}{HTH}{THH}{TTT}{TTH}{HTT}
- {HHH}{HHT}{TTT}{TTH}{THT}{HTT}
- {HTH}{THH}{TTT}{TTH}{THT}{HTT}

No, the answer is incorrect.**Score: 0****Accepted Answers:***{HHH}{HHT}{HTH}{THH}{TTT}{TTH}{THT}{HTT}*

7) Consider the following data set and calculate the standard deviation of the data.

2 points

{4,5,8,5,9,12,11,8,7}

- 2.95
- 2.12
- 2.74
- 3.05

No, the answer is incorrect.**Score: 0****Accepted Answers:***2.74*

8) When a variable X increase, variable Y decreases. Which of the following statement might be correct based on this information?

1 point

- X and Y are uncorrelated
- X and Y are independent
- X and Y are positively correlated
- X and Y are negatively correlated

No, the answer is incorrect.

Score: 0

Accepted Answers:

X and Y are negatively correlated

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