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NPTEL

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Courses » Advanced Green Manufacturing Systems

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Unit 9 - Week 7

Register for
Certification exam

Course outline

How to access
the portal

Week 0

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Week 6

Week 7

- Lecture 23:
Design of
Experiments for
Factor
Selection
- Lecture 24:
Fundamental
Techniques of
Experimentation
- Lecture 25:
Simple
Comparative
Experiments
- Quiz :
Assignment 7

Assignment 7

The due date for submitting this assignment has passed.

As per our records you have not submitted this **Due on 2019-03-20, 23:59 IST.**
assignment.

1) Consider an experiment of studying the tool wear for a lathe machine tool. We have three **2 points** different specimens of the same tool and we will observe 5 different observations with each specimen.

Which of the following experimental technique has been followed in this experiment?

- Repetition
- Blocking
- Replication
- Randomization

No, the answer is incorrect.

Score: 0

Accepted Answers:

Replication

2) A consumer tried to study the battery life of his mobile phone and thus conducted an **2 points** experiment in which he/she observed the standby time of the mobile after completely charging the device for 10 times.

Which of the following technique of experimentation has been followed in this experiment?

- Replication
- Repetition
- Blocking
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Repetition

3) With minimal effects to the system, a *robust system* can handle various sources of **2 points**

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Week 7

Week 8

Week 9

Week 10

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Week 12

Score: 0

Accepted Answers:
True

4) By varying the Process variables, the Response variables get changed accordingly. **2 points**
Is the statement true or false?

True

False

No, the answer is incorrect.

Score: 0

Accepted Answers:
True

5) Which of the following is the most appropriate statement for External Variables? **2 points**

They capture the output of the system

These variables cannot be controlled

These variables are varied in a controlled manner during the experimentation

None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:
These variables cannot be controlled

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