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Courses » Sustainable Engineering Concepts And Life Cycle Analysis

Announcements Course Ask a Question Progress



Unit 4 - Week 3

Course outline

How to access the portal

Week 1

Week 2

Week 3

- Lecture 11: Environmental Data Collection and LCA Methodology
- Lecture 12: Environmental Data Collection and LCA Methodology (Contd.)
- Lecture 13: Environmental Data Collection and LCA Methodology (Contd.)
- Lecture 14: Environmental Data Collection and LCA Methodology (Contd.)
- Lecture 15: LCA Methodology
- Week 3: Course Material
- Feedback for week 3
- Quiz : Assignment 3
- Assignment solution: week 3

Week 4

Week 5

Assignment 3

The due date for submitting this assignment has passed. **Due on 2018-02-28, 23:59 IST**
As per our records you have not submitted this assignment.

1) Method detection limit (MDL) can be determined by which of the following operation? $t = \text{one sided critical } t\text{-value}$ $n = \text{number of sample}$ $S = \text{standard deviation}$ **1 point**

- $MDL = t(n-1, \alpha = 0.99) \times S$
- $MDL = t(n-1, \alpha = 0.90) \times S$
- $MDL = t(n, \alpha = 0.99) \times S$
- $MDL = t(n+1, \alpha = 0.90) \times S$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$MDL = t(n-1, \alpha = 0.99) \times S$

2) In which of the following case, you can say that the obtained data set is probably normally distributed? **1 point**

- Arithmetic mean > standard deviation and variance
- Arithmetic mean < standard deviation and variance
- Arithmetic mean = standard deviation and variance
- Arithmetic mean \leq standard deviation and variance

No, the answer is incorrect.

Score: 0

Accepted Answers:

Arithmetic mean > standard deviation and variance

3) To make the method detection limit (MDL) confident, how many number of samples should be taken according to EPA recommendation? **1 point**

- Greater than 10 samples
- Greater than 5 samples
- Greater than 7 samples
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Greater than 7 samples

4) Out of the following sample preparation processes for any analysis which are categorized as chemical preparation techniques? **1 point**

- Solvent extraction
- Drying

Week 6

Week 7

Week 8

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- Chemical oxidation
- Grinding

No, the answer is incorrect.

Score: 0

Accepted Answers:

Solvent extraction
Chemical oxidation

5) Which of the following chemicals are used in Toxicity characteristic leaching procedure (TCLP) test? 1 point

- Nitric acid
- Acetic acid
- Hydrochloric acid
- Sodium hydroxide
- Calcium Hydroxide

No, the answer is incorrect.

Score: 0

Accepted Answers:

Acetic acid
Sodium hydroxide

6) Which of the following statements are true? 1 point

- Large numbers of sample analysis are generally a good representative of the actual one.
- Small numbers of sample analysis are generally a good representative of the actual one.
- For heterogeneous sample, the required numbers of sample analysis is greater than homogeneous sample.
- For homogeneous sample, the required numbers of sample analysis is greater than heterogeneous sample.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Large numbers of sample analysis are generally a good representative of the actual one.
For heterogeneous sample, the required numbers of sample analysis is greater than homogeneous samp

7) What are the purpose of conducting life cycle assessment? 1 point

- Helps in making choices which have less impact on environment.
- Helps in making choices which provide more economic advantages.
- Helps in making choices which are good for society.
- Helps people and industrialists understand how they can make a difference by adopting more environment friendly products/processes.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Helps in making choices which have less impact on environment.
Helps people and industrialists understand how they can make a difference by adopting more environmer friendly products/processes.

8) Which elements are responsible for global warming? 1 point

- CO2
- HCl
- NO2
- CH4

No, the answer is incorrect.

Score: 0

Accepted Answers:



CO2

NO2

CH4

9) Use of Spectrophotometer in the analysis of colored sample will not create any problem. **1 point**

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

10) While comparing between a wooden pencil vs a mechanical pencil on the basis of Life cycle assessment, both the pair of 'writing and 20 pages of writing' and 'writing and 1 hour of writing' can be chosen as 'function and functional unit'.

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True



◀ Previous Page

End ▶

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