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NPTEL

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Courses » Sustainable Engineering Concepts And Life Cycle Analysis

Announcements **Course** Ask a Question Progress

Unit 6 - Week 5



Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

- Lecture 21: Unit Process, Data and LCI Databases
- Lecture 22: Unit Process, Data and LCI Databases (Contd.)
- Lecture 23: Inventory Data and LCIA
- Lecture 24: LCIA
- Lecture 25: LCA Interpretation
- Week 5: Course Material
- Feedback for week 5
- Quiz : Assignment 5
- Assignment solution: week 5

Week 6

Week 7

Week 8

Assignment 5

The due date for submitting this assignment has passed. **Due on 2018-03-14, 23:59 IST**
As per our records you have not submitted this assignment.

1) The flow connecting one unit process with another during LCA is known as

1 point

- Elementary flow
- Inflow
- Outflow
- Intermediary flow

No, the answer is incorrect.

Score: 0

Accepted Answers:

Intermediary flow

2) The flow connecting the unit processes with environment during LCA is known as

1 point

- Inflow
- Elementary flow
- Outflow
- Intermediary flow

No, the answer is incorrect.

Score: 0

Accepted Answers:

Elementary flow

3) What are the categories of environmental impacts that should be considered during life cycle assessment? **1 point**

- Resource use
- Economy
- Human health
- Ecological consequences

No, the answer is incorrect.

Score: 0

Accepted Answers:

Resource use

Human health

Ecological consequences

4) Which of the following should be considered for impact on ecosystem during life cycle impact assessment (LCIA)? **1 point**

- Aquatic eutrophication
- Respiratory effects

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- Human toxicity
- Aquatic acidification

No, the answer is incorrect.

Score: 0

Accepted Answers:

Aquatic eutrophication

Aquatic acidification

5) What are the major checks suggested by ISO 14044: 2006 during the evaluation step of interpretation procedure? 1 point

- Completeness
- Consistency
- Accuracy
- Sensitivity

No, the answer is incorrect.

Score: 0

Accepted Answers:

Completeness

Consistency

Sensitivity

6) Out of the following types of waste of equal amount which two will generate more CO₂ in a landfill at the end of life? 1 point

- Inert waste
- Plastic waste
- Municipal solid waste
- Cardboard waste

No, the answer is incorrect.

Score: 0

Accepted Answers:

Plastic waste

Municipal solid waste

7) The Cut-Off criteria during goal and scope definition of a LCA study is based on which of the following? 1 point

- Mass
- Energy
- Environmental relevance
- Economy

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mass

Energy

Environmental relevance

8) The major reasons for the development of LCA are rising waste problems and acknowledgment of limited resources in terms of energy as well as materials. 1 point

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True



9) The identical stages/processes between compared systems can be excluded only if this does **1 point** not affect their functional equivalence.

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

10) If a manufacturer excludes use and end of life phase of a product during LCA due to uncontrollable track of the product after distribution in the market, then it is known as 'cradle to grave' LCA.

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False



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