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Courses » Sustainable Engineering Concepts And Life Cycle Analysis

Announcements Course Ask a Question Progress



## Unit 8 - Week 7

### Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Lecture 31: Design for Sustainability

Lecture 32: Design for Sustainability (Contd.)

Lecture 33: Design for Sustainability (Contd.)

Lecture 34: Sustainable Engineering Design Principles

Lecture 35: Sustainable Engineering Design Principles (Contd.)

Week 7: Lecture Material

Feedback for week 7

Quiz : Assignment 7

### Assignment 7

The due date for submitting this assignment has passed. **Due on 2018-03-28, 23:59 IST**  
As per our records you have not submitted this assignment.

1) Among the 3 R's of material management which one is most important? 1 point

- Re-use
- Re-cycle
- Re-duce
- Re-new

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Re-duce*

2) Sustainable System is a/an \_\_\_\_\_ system. 1 point

- Non-cyclical
- Acyclic
- Cyclical

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Cyclical*

3) Out of the following categories which two are assigned maximum credit points in LEED mission? 1 point

- Sustainable sites
- Energy and atmosphere
- Indoor environmental quality
- Water efficiency

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Energy and atmosphere*

*Indoor environmental quality*

4) Which of the following options are correct? 1 point

- Traditional engineering focuses on maximization of utility with minimization of cost
- Sustainable Engineering focuses on maximization of utility with minimization of cost
- Sustainable Engineering focuses on maximization of social benefit with minimization of ecological impact

Assignment  
solution:Week 7

Week 8

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Traditional engineering focuses on maximization of social benefit with minimization of ecological impact

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Traditional engineering focuses on maximization of utility with minimization of cost*

*Sustainable Engineering focuses on maximization of social benefit with minimization of ecological impact*

5) What are the important properties of sustainable design? 1 point

- Designing a highly sophisticated system
- Designing objects that have a positive long term social impact
- Designing objects that are from renewable sources
- Designing for function

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Designing objects that have a positive long term social impact*

*Designing objects that are from renewable sources*

*Designing for function*

6) What are the first two principles of Green Engineering? 1 point

- Target durability not immortality
- All materials and energy inputs and outputs are as inherently nonhazardous as possible
- Separation and purification process should be designed to minimize energy consumption and material use
- It is better to prevent waste than to treat or clean up waste after it is formed

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All materials and energy inputs and outputs are as inherently nonhazardous as possible*

*It is better to prevent waste than to treat or clean up waste after it is formed*

7) Out of the following what are the end point damages if chlorofluorocarbon (CFC) emitted from a process reach the stratosphere. 1 point

- O3 destruction
- Skin cancer
- Crop damage
- Increase in particulate matter in the air

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Skin cancer*

*Crop damage*

8) Full form of LEED is leadership in energy and environmental design credit system. 1 point

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*True*

9) The cost associated with loss of fishable water due to pollutants discharged by a facility to a stream is an example of internal cost. 1 point

- True



False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

10) According to Hannover principle, human systems must be designed to co-exist with natural systems 1 point

True

False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True



◀ Previous Page

End ▶

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