

# System Design for Sustainability

## Week 1: Answers to Practice Questions

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1. Which of the following would you consider to be the most sustainable?  
Use case: A toothbrush for daily use.  
**Answer:** There is no one right answer. This is an exercise in identifying the problem with classifying products as "sustainable."
2. In what ways does Cradle to Cradle design imitate nature's ways? Check all correct answers.  
**Answer:** a, c, d, e.
3. Which of the following is **not** a part of the Cradle to Cradle certification standard?  
**Answer:** c
4. Which of the following is/are **not** examples of a system?  
**Answer:** a
5. What are the key differences between an open and closed system? Check all correct answers.  
**Answer:** a, b
6. Consider a thermally insulated coffee mug as a system. Which of the following statements about its system hierarchy are correct? Check all correct answers.  
**Answer:** a, b
7. Please study the given diagram of a conceptual sketch of a product-service system. In the list of statements that follow, check all options that apply and are correct.  
**Answer:**
8. In what ways can a PSS design be more sustainable than a product design? Check all correct answers.  
**Answer:** a, b c.