

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Sustain-Ability: A 12th Grade Green Economy Slam Dunk

Analyze the interplay of life-cycle assessments, circular economic models, and planetary boundaries through diverse inquiry-based prompts.

---

**1. Which analytical framework specifically evaluates a product's environmental impact from raw material extraction through final disposal, often used in corporate ESG reporting?**

- A. The Kuznets Curve
- B. Life Cycle Assessment (LCA)
- C. Total Factor Productivity
- D. Marginal Abatement Cost

**2. The \_\_\_\_\_ economy is a model of production and consumption that involves sharing, leasing, reusing, and recycling existing materials for as long as possible.**

- A. Linear
- B. Closed-loop
- C. Circular
- D. Subsidized

**3. The 'Precautionary Principle' suggests that if an action has a risk of causing harm to the environment, the burden of proof that it is NOT harmful falls on those taking the action.**

- A. True
- B. False

**4. In the context of the UN Sustainable Development Goals (SDGs), 'Goal 12: Responsible Consumption and Production' would most likely prioritize which of the following urban initiatives?**

- A. Expansion of suburban highways
- B. Implementing 'Right to Repair' legislation
- C. Increasing the extraction of rare-earth minerals
- D. Privatization of municipal water supplies

**5. Rockström's 'Planetary Boundaries' framework identifies \_\_\_\_\_ loss and nitrogen/phosphorus cycles as two areas where humans have already exceeded safe operating limits.**

- A. Biodiversity
- B. Stratospheric ozone
- C. Ocean salinity
- D. Tectonic

**6. Externalities refer to the hidden costs of production, such as air pollution, that are not reflected in the market price of a good or service.**

- A. True

Name: \_\_\_\_\_ Date: \_\_\_\_\_

B. False

**7. Which of these concepts describes a situation where an individual's attempt to maximize personal gain from a finite, shared resource leads to the resource's depletion for everyone?**

- A. The Resource Paradox
- B. The Tragedy of the Commons
- C. Jevons Paradox
- D. Pareto Efficiency

**8. In the 'Triple Bottom Line' accounting framework, a corporation evaluates its performance based on Profit, People, and \_\_\_\_.**

- A. Performance
- B. Planet
- C. Policy
- D. Production

**9. Renewable energy sources like biomass and hydroelectricity are always sustainable, regardless of the scale of implementation or local ecosystem displacement.**

- A. True
- B. False

**10. The 'Great Acceleration' refers to the period after 1950 characterized by which of the following trends?**

- A. A decline in global literacy rates
- B. Stabilization of atmospheric CO2 levels
- C. Rapid exponential growth in human activity and resource consumption
- D. The decentralization of global trade networks