



Practice Worksheet on Circular Economy and Waste Management

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Subject: Environmental Science

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Long Answer Questions

1. Elaborate on the concept of a circular economy and its importance in addressing the adverse effects of chemicals and waste on the environment and human health.
2. Discuss the strategies and approaches adopted by the UNDP in managing chemicals and waste, highlighting their role in promoting a circular economy.
3. Analyze the challenges associated with plastic waste management, and discuss potential solutions for mitigating its environmental and health impacts.
4. Discuss sustainable agriculture and its importance in minimizing environmental impact, including the responsible use of pesticides and the management of agrochemical waste.
5. Discuss the significance of sustainable mining practices in protecting the environment and human health, along with the challenges faced by the artisanal and small-scale gold mining sector.

Multiple Choice Questions

1. Which economic model prioritizes waste reduction, resource efficiency, and the reuse of materials?

- a) Linear economy
- b) Circular economy
- c) Traditional economy
- d) Mixed economy

2. What approach is crucial for achieving sustainable development while minimizing the negative impact on the environment?

- a) Reducing consumption
- b) Increasing production
- c) Sustainable production and consumption
- d) Promoting economic growth

3. What is the main characteristic of plastics that makes them challenging to manage environmentally?

- a) Biodegradable
- b) Non-biodegradable
- c) Recyclable
- d) Compostable

4. What is considered a key aspect of the transition to a circular economy in the context of metal production?

- a) Reusing materials
- b) Recycling metals
- c) Mining more minerals
- d) Reducing waste

5. What is the major negative consequence of the widespread use of pesticides in agriculture?

- a) Increase in yields
- b) Improved quality of crops
- c) Environmental harm
- d) Reduced food prices

Answer Key

Long Answer Questions - Expected Responses

1. Elaborate on the concept of a circular economy and its importance in addressing the adverse effects of chemicals and waste on the environment and human health.

Expected Answer: Explain the concept of circular economy and its significance in minimizing the negative impact of chemicals and waste.

2. Discuss the strategies and approaches adopted by the UNDP in managing chemicals and waste, highlighting their role in promoting a circular economy.

Expected Answer: Discuss UNDP's interventions and strategies in chemicals and waste management.

3. Analyze the challenges associated with plastic waste management, and discuss potential solutions for mitigating its environmental and health impacts.

Expected Answer: Explain the challenges in managing plastic waste and possible solutions.

4. Discuss sustainable agriculture and its importance in minimizing environmental impact, including the responsible use of pesticides and the management of agrochemical waste.

Expected Answer: Discuss the importance of sustainable agriculture and its role in reducing the environmental impact.

5. Discuss the significance of sustainable mining practices in protecting the environment and human health, along with the challenges faced by the artisanal and small-scale gold mining sector.

Expected Answer: Explain the importance of sustainable mining and the challenges faced by the sector.

Multiple Choice Questions – Correct Answers

1. Which economic model prioritizes waste reduction, resource efficiency, and the reuse of materials?

Correct Answer: Circular economy

2. What approach is crucial for achieving sustainable development while minimizing the negative impact on the environment?

Correct Answer: Sustainable production and consumption

3. What is the main characteristic of plastics that makes them challenging to manage environmentally?

Correct Answer: Non-biodegradable

4. What is considered a key aspect of the transition to a circular economy in the context of metal production?

Correct Answer: Recycling metals

5. What is the major negative consequence of the widespread use of pesticides in agriculture?

Correct Answer: Environmental harm