



**LAND MANAGEMENT, ENVIRONMENT & SOLID-WASTE:
INSIDE EDUCATION AND BUSINESS IN CENTRAL ASIA
ERASMUS-EDU-2023-CBHE Project Number: 101129032**

MICRO-CREDENTIAL

LAND MANAGEMENT IN CENTRAL ASIA

4.- Land as a Natural and Ecological Resource

Activity

Identify ecosystem components of a land parcel



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Student Worksheet

Lesson Topic: Identify Ecosystem Components of a Land Parcel

Name: _____

Date: _____

Instructions

Read each question carefully and complete all sections. For multiple choice questions, choose one correct answer. For true/false questions, write True or False. For short answer and discussion questions, respond in clear and logically structured sentences using ecological and land management terminology.

Part 1. Multiple Choice Questions

1. An ecosystem in a land parcel refers to:

- A. Only the plants growing on the land
- B. The interaction between living organisms and their physical environment
- C. Only soil resources
- D. Only human activities

Your answer: _____

2. Which of the following is a biotic component of an ecosystem?

- A. Soil
- B. Water
- C. Plants and animals
- D. Sunlight

Your answer: _____

3. Which of the following is an abiotic component of a land ecosystem?

- A. Microorganisms
- B. Vegetation
- C. Soil and climate
- D. Animals

Your answer: _____

4. Vegetation in a land parcel ecosystem primarily contributes to:

- A. Soil erosion only
- B. Oxygen production and habitat formation
- C. Eliminating biodiversity
- D. Reducing soil fertility

Your answer: _____

5. Soil organisms such as bacteria and fungi are important because they:

- A. Reduce soil nutrients
- B. Decompose organic matter and recycle nutrients
- C. Destroy ecosystems
- D. Prevent plant growth

Your answer: _____

6. Water availability in a land parcel affects:

- A. Plant growth and biodiversity
- B. Only soil color
- C. Land ownership rights
- D. Government policies

Your answer: _____

7. Sunlight is important in ecosystems because it:

- A. Supports photosynthesis in plants
- B. Eliminates microorganisms
- C. Reduces biodiversity
- D. Controls land ownership

Your answer: _____

8. Which of the following best describes biodiversity in a land parcel?

- A. The number of buildings in the area
- B. The variety of living organisms present
- C. The size of the land parcel
- D. The economic value of land

Your answer: _____

9. Human activities can influence land ecosystems by:

- A. Changing land use and vegetation patterns
- B. Eliminating sunlight
- C. Removing soil completely
- D. Stopping natural processes

Your answer: _____

10. Identifying ecosystem components helps land managers to:

- A. Improve environmental protection and land use planning
- B. Increase land degradation
- C. Ignore biodiversity
- D. Eliminate conservation programs

Your answer: _____

Part 2. True / False

11. Ecosystems include both living (biotic) and non-living (abiotic) components.

Answer: _____

12. Soil, climate, and water are abiotic components of a land ecosystem.

Answer: _____

13. Plants and animals are considered abiotic components.

Answer: _____

14. Human activities can influence ecosystem balance in a land parcel.

Answer: _____

15. Identifying ecosystem components is important for sustainable land management.

Answer: _____

Part 3. Short Answer Questions

16. What is an ecosystem, and how does it relate to a land parcel?

17. List and briefly explain three biotic components found in land ecosystems.

18. Identify three abiotic components that influence a land ecosystem.

19. Explain the role of soil organisms in maintaining ecosystem health.

20. Why is it important for land managers to identify ecosystem components before making land use decisions?

Part 4. Discussion Questions

21. Discuss how changes in land use (agriculture, urbanization, deforestation) affect ecosystem components of a land parcel.

22. Analyze the relationship between biodiversity and ecosystem stability in land management.



23. Evaluate how sustainable land management practices help protect ecosystem components.

Teacher's Comment
