



Student Name: _____

Class: _____

Student ID: _____

Date: {{DATE}}

Assessment Details

Duration: 45 minutes

Total Marks: 100

Topics Covered:

- Biodiversity
- Ecosystems
- Conservation

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Write your answers in the spaces provided.
4. If you need more space, use the additional pages at the end.
5. Time management is crucial - allocate approximately 1 minute per mark.

Section A: Multiple Choice Questions [20 marks]

Question 1

[2 marks]

What is the term used to describe the variety of different species of plants, animals, and microorganisms in an ecosystem?

A) Ecosystem

B) Biodiversity

C) Conservation

D) Sustainability

Question 2

[2 marks]

Which of the following human activities has the greatest impact on biodiversity?

A) Deforestation

B) Pollution

C) Climate change

D) Overfishing

Question 3

[2 marks]

What is the main purpose of protected areas in conservation?

A) To provide habitat for endangered species

B) To promote sustainable resource management

C) To restore degraded ecosystems

D) To educate the public about conservation

Question 4

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[2 marks]

What is the role of decomposers in an ecosystem?

A) To produce oxygen

B) To consume organic matter

C) To regulate the water cycle

D) To absorb carbon dioxide

Question 5

[2 marks]

Which of the following is an example of a conservation strategy?

A) Deforestation

B) Sustainable fishing

C) Pollution reduction

D) All of the above

Question 6

[5 marks]

Describe the impact of deforestation on biodiversity and ecosystem health.

Question 7

[5 marks]

Explain the concept of sustainable resource management and provide an example of how it can be applied in a real-world scenario.

Question 8

[5 marks]

What are some strategies that can be used to reduce pollution in ecosystems?

Section C: Diagram Labeling [10 marks]

Label the following components in the ecosystem diagram:

- Producers
- Consumers
- Decomposers
- Abiotic factors



Section D: Conservation Strategies [10 marks]

Match the following conservation strategies with their definitions:

1. Protected areas	_____
2. Sustainable resource management	_____
3. Restoration ecology	_____
4. Education and awareness	_____

Definitions:

1. A) The process of restoring degraded ecosystems to their natural state
2. B) The management of natural resources to meet the needs of present and future generations
3. C) Areas set aside to conserve and protect biodiversity
4. D) The process of educating the public about the importance of conservation

Section E: Case Study [20 marks]

A local community is planning to develop a new housing project in a nearby forest. The forest is home to several endangered species and is an important habitat for many other plants and animals.

What are some potential impacts of this development on the ecosystem? What conservation strategies could be implemented to mitigate these impacts?

Conclusion

Thank you for completing this assessment. Remember that conservation is everyone's responsibility, and every small action can make a big difference in protecting our planet's biodiversity and ecosystems.