Name _____

Adapting to Change: How Non-Vascular Plants Respond to Environmental Challenges

Multiple Choice Questions

1. How do non-vascular plants respond to drought?

A) By increasing metabolic activity

B) By entering a dormant state and conserving water

C) By absorbing more water from the environment

D) By shedding leaves to reduce water loss

2. What is one passive mechanism non-vascular plants use to mitigate the effects of pollution?

A) Production of detoxifying enzymes

B) Thinning of cell walls

C) Thickening of waxy cuticles

D) Secretion of compounds that bind to pollutants

3. How do non-vascular plants contribute to soil stabilization in disturbed habitats?

A) By emitting toxic chemicals

B) By preventing the growth of other plant species

C) By increasing soil erosion

D) By reproducing vegetatively through fragmentation

4. What role do non-vascular plants play in succession?

A) They inhibit the growth of other plant species.

B) They accelerate soil degradation.

C) They prepare the habitat for the arrival of vascular plants.

D) They have no impact on ecosystem development.

5. What are some threats to non-vascular plants in the face of environmental changes?

A) Rising temperatures and habitat destruction

B) Decreased pollution levels and increased precipitation

C) Enhanced soil fertility and decreased human activity

D) Expanded habitat range and increased biodiversity