

Deforestation & Reforestation Mastery

Environmental Science · Answer Key · 10 Questions

1. Which specific layer of a tropical rainforest contains the highest density of plant and animal species, significantly impacted by deforestation?

- A) The Forest Floor
- B) The Emergent Layer
- C) The Canopy**
- D) The Understory

2. What is the term for the process where nutrient-rich topsoil is removed from deforested areas by wind and water, preventing new plants from growing?

- A) Erosion**
- B) Evaporation
- C) Desalination
- D) Sedimentation

3. In the context of reforestation, what are 'pioneer species'?

- A) The oldest trees in a forest
- B) Fast-growing plants that first colonize a cleared area**
- C) Trees that only grow in deep shade
- D) The last species to grow in a climax forest

4. Which greenhouse gas is primarily absorbed by trees during photosynthesis, helping to mitigate climate change?

- A) Methane
- B) Carbon Dioxide**
- C) Nitrogen
- D) Helium

5. What is the 'Amazon Rainforest' primarily categorized as due to its ability to absorb more carbon than it releases?

- A) Carbon source
- B) Carbon sink**
- C) Carbon neutral zone
- D) Carbon exhaust

6. Which of these practices is the most direct cause of deforestation in the Amazon basin according to current land-use data?

- A) Urban housing development
- B) Cattle ranching and agriculture**
- C) Gold mining
- D) Natural forest fires

7. What is the primary purpose of a 'wildlife corridor' in a reforestation project?

- A) To provide paths for hikers
- B) To connect isolated forest fragments for animal migration**
- C) To create fire breaks
- D) To organize tree planting rows

8. What happens to the local water cycle when a large area of forest is cleared?

- A) Transpiration decreases**
- B) Humidity increases
- C) Rainfall becomes more frequent
- D) Groundwater levels rise

9. Which of these tree types is most commonly used in commercial reforestation projects due to its fast growth rate?

- A) Hardwood Oak
- B) Eucalyptus**
- C) Ancient Redwood
- D) Slow-growing Cedar

10. What is the primary goal of 'sustainable forestry' management?

- A) To remove all dead trees
- B) To ensure trees are harvested at a rate that allows the forest to regenerate**
- C) To plant only one species of tree
- D) To convert forest land into parkland