ARIZONA BIOLOGY · UNIT 4 · 10 QUESTIONS

Ecology and Ecosystems — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **In a mark and recapture study, 40 fish are marked and released Later 50 fish are caught and 10 are marked The estimated population size is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Eutrophication occurs when excess nutrients enter a lake, algae grow rapidly, and oxygen levels fall when the algae**

A. Migrate away

B. Freeze

C. Die and decompose

D. Photosynthesize

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3 **Deforestation reduces biodiversity and increases carbon dioxide in the air because fewer trees are available to carry out**

A Transpiration only

B Photosynthesis

C Respiration

D Decomposition

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4 **Burning fossil fuels releases carbon dioxide, a greenhouse gas that traps heat and contributes to**

A Climate change

B Ozone formation

C Soil erosion

D Acid rain only

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5 **Protecting habitats, limiting pollution, and preserving genetic diversity are all strategies for**

- A Succession
- B Competition
- C Predation
- D Conservation

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6 **In a predator-prey cycle, the predator population increases after the prey population increases because**

- A more prey supports more predators
- B predators eat producers
- C prey eat predators
- D producers stop growing

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7 **The carbon cycle moves carbon between the atmosphere, oceans, living things, and rocks through processes including photosynthesis, respiration, and**

A Erosion only

B Combustion

C Nitrogen fixation

D Precipitation

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8 **A food chain in a pond begins with algae, which are eaten by small fish, which are eaten by large fish The large fish are**

A Secondary consumers

B Producers

C Primary consumers

D Decomposers

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9 **If producers store 5000 kilocalories and about 10 percent transfers at each level, the energy reaching secondary consumers is about**

ANSWER _____

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10 **A wildlife survey counts 30 deer in a 10 km² area The population density is deer per km²**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	200	**5.**	D	**9.**	50
2.	C	**6.**	A	**10.**	3
3.	B	**7.**	B		
4.	A	**8.**	A		

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