

Chapter 10

Ecology

- Which of the following activities increase the concentration of greenhouse gases in the atmosphere?
(A) Increasing the number of cows and sheep to help feed a growing human population
(B) Burning tropical rain forest to clear land for grazing
(C) Leaving leaks in natural gas pipelines unchecked
(D) Spreading salt on roads to prevent ice formation
- Which one of the following choices CORRECT pair of biomes with some of its characteristics?
(A) Temperate deciduous forest: Cold winter, moderate to high rainfall
(B) Grassland: Cool to cold winters, dry summers
(C) Taiga: Very cold winters, short growing seasons
(D) Savanna: Long, cold winters, summer thaws of only the upper layers of soil
- Which of the following are gaseous type cycle?
(A) Carbon cycle
(B) Nitrogen cycle
(C) Phosphorus cycle
(D) Oxygen cycle
- The term biological magnification refers to the increased levels of a toxin seen in successive trophic levels in a food web. Which one of the following options CORRECTLY states the reason(s) for the increment of a toxin in the ecosystem?
(A) The toxin is highly toxic to primary producers, relatively less toxic to primary consumers, and non-toxic to secondary consumers.
(B) The toxin cannot be degraded by microorganism and consequently persist in the environment for years
(C) The toxin to begin with was not toxic or less toxic but became more toxic by metabolism in the primary producers
(D) A higher level of toxin is seen in species representing higher trophic levels.
- Which of the following are site for *in situ* conservation?
(A) Biosphere reserve
(B) Zoological garden
(C) Wildlife sanctuary
(D) Biodiversity hotspot
- The phosphorus cycle contains
(A) mineral
(B) aquatic component
(C) organic component
(D) atmospheric components
- What are the components of species diversity?
(A) Species habitat
(B) Species richness
(C) Taxonomic diversity
(D) Species evenness

8. What are the main factors that determine the climate of an area?
(A) Precipitation
(B) Humidity
(C) Temperature
(D) Wind conditions
9. The difference between the phosphorous cycle and carbon cycle are TRUE in the fact that
(A) the phosphorous cycle does not include a gaseous phase, but the carbon cycle does
(B) phosphorous does not enter living entities but carbon enters
(C) the phosphorous cycle includes a solid phase, the carbon cycle does not
(D) primary reservoir of the phosphorous cycle is the atmosphere, but rocks are the primary reservoirs for carbon cycle
10. How will increasing species diversity affect ecosystem?
(A) It increases the efficiency of the ecosystem
(B) It increases productivity of the ecosystem
(C) It decreases productivity of the ecosystem
(D) It decreases efficiency of the ecosystem

Answer

1. (A), (B), (C)
2. (A), (B), (C)
3. (A), (B), (D)
4. (B), (C)
5. (A), (C), (D)
6. (A), (B), (C)
7. (B), (C), (D)
8. (A), (C)
9. (B), (C), (D)
10. (A), (B)