

What are Community Interactions?

Worksheet

Community interactions are relationships between species in an ecosystem: competition (both harmed), predation (predator gains, prey loses), parasitism (parasite gains, host harmed), and mutualism (both gain).

Questions

1. A lion hunts and eats a zebra. This is an example of
 - A) competition
 - B) predation
 - C) parasitism
 - D) mutualism
2. Two species of insects both eat the same plant. This is an example of
 - A) predation
 - B) parasitism
 - C) competition
 - D) mutualism
3. A bird eats insects from an alligator's teeth (parasite removal) and gets food; the alligator's teeth stay clean. This is
 - A) parasitism
 - B) mutualism
 - C) predation
 - D) competition
4. Competitive exclusion occurs when
 - A) one species eats another
 - B) one species outcompetes another for resources
 - C) both species thrive together
 - D) parasites kill hosts
5. Two plant species grow in a forest. Species A can photosynthesize faster and grows taller, blocking sunlight from Species B. What type of interaction is this, and what is the outcome?
6. A tick attaches to a deer's skin, feeds on blood, and weakens the deer without killing it. What type of interaction is this?
7. A flowering plant produces nectar; a bee collects nectar (food) and pollinates the flower (helps reproduction). What type of interaction is this?
8. Define: What is competition?
9. Define: What is predation?
10. Define: What is parasitism?

Answer Key

1. B) predation - The lion (predator) hunts the zebra (prey). Lion gains energy; zebra dies. This is predation.
2. C) competition - Both species compete for the same food (plant leaves). If resources are limited, both are harmed.
3. B) mutualism - Both species benefit: bird gets food, alligator gets cleaning service. Mutualism.
4. B) one species outcompetes another for resources - If one species is superior at using a limited resource, it excludes the other (outcompetes it weaker species dies out).
5. Interaction type: competition (both species need sunlight) Species affected: both harmed (A gains, B loses light) Outcome: competitive exclusion - Species B dies out or relocates Note: if resources are not limiting, both may coexist
6. Interaction type: parasitism Parasite: tick (benefits: food) Host: deer (harmed: loses blood, energy) Outcome: tick population depends on deer health; high tick load can cause anemia
7. Interaction type: mutualism Bee benefits: obtains food (nectar) Plant benefits: reproduction (pollination) Outcome: both species depend on the interaction for survival; coevolution common
8. Two species both need the same resource (food, water, light, territory); both are harmed if resources are limited.
9. One species (predator) hunts and eats another (prey). Predator gains energy; prey dies. Controls prey population.
10. Parasite lives on/in host, feeds, and harms the host without killing it (unlike predation). Host is weakened.

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