

K-12

CST-G5

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Question: 1

A prairie ecosystem is described below. Farmers treat fields surrounding the prairie with pesticides that kill part of the beetle population. What effect would the pesticides have on the rest of the ecosystem?

Grass is eaten by grasshoppers, rabbits, and crickets

Corn is eaten by squirrels and beetles

Grasshoppers, beetles, and crickets are all eaten by birds

Squirrels, birds, and rabbits are all eaten by both foxes and coyotes

- A. There would be a decrease in the cricket population.
- B. There would be an increase in the population of birds.
- C. The population of rabbits would decrease.
- D. The population of foxes would increase.

Answer: A

Explanation:

In the ecosystem described, birds eat beetles, crickets, and grasshoppers. If a pesticide were to kill off part of the beetle population, birds would be forced to consume more crickets and grasshoppers to meet their energy needs. As a result, there would be a decrease in the cricket population.

Question: 2

Which organisms from the ecosystem described above are herbivores?

- A. Corn and grass
- B. Grasshoppers and crickets
- C. Beetles and birds
- D. Foxes and coyotes

Answer: B

Explanation:

Herbivores are organisms that eat producers (plants) only. In the ecosystem described, both grasshoppers and crickets are herbivores, eating corn and grass.

Question: 3

Which statement correctly describes the relationship between plants and animals?

- A. Animals breathe in oxygen and plants release oxygen.
- B. Animals breathe in carbon dioxide while plants release carbon dioxide.
- C. Animals breathe in carbon dioxide while plants breathe out carbon dioxide.
- D. Animals get oxygen from plants by eating the plants.

Answer: A

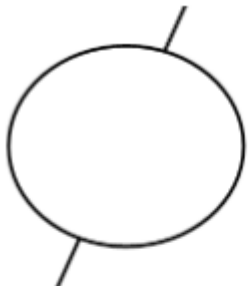
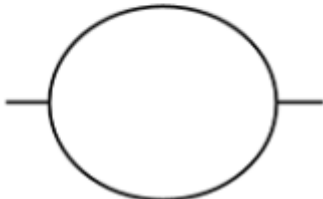
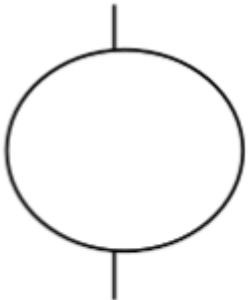
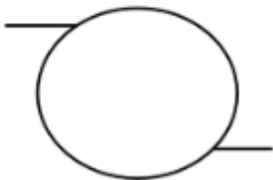
Explanation:

Animals breathe in oxygen and breathe out carbon dioxide in a process called respiration.

Plants use the carbon dioxide that animals exhale, in the process of photosynthesis, and convert it into oxygen.

Question: 4

Which picture best represents Earth's position on its axis?

- a. 
- b. 
- c. 
- d. 

A. Option A

- B. Option B
- C. Option C
- D. Option D

Answer: A

Explanation:

Earth sits on its axis at a tilt of 23.4°. Choice B would result in Earth rotating sideways and choice C is straight up and down. Choice D is not even physically possible.

Question: 5

What should be included in a hypothesis?

- A. A hypothesis should tell what you think is going to happen and why.
- B. A hypothesis should state what the results of similar experiments were.
- C. A hypothesis should summarize the results of an experiment.
- D. A hypothesis should compare the control to the variable.

Answer: A

Explanation:

A hypothesis is an educated guess formulated by the experimenter based on prior experiments and research. A hypothesis includes what the experimenters think is going to happen and their reasoning.

Question: 6

What causes high and low tide?

- A. The Earth's rotation
- B. The Moon's gravity
- C. The wind currents
- D. The change in water temperature

Answer: B

Explanation:

Tides are caused by the effect of the Moon's gravity and the Sun's gravity pulling on the ocean waters.

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