ALBERTA BIOLOGY 20 · UNIT 1 · 5 QUESTIONS

Energy and Matter Exchange in the Biosphere — Practice Test

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1 **A black bear feeds on berries, grasses, and salmon. The bear is best classified as an**

A herbivore

B carnivore

C omnivore

D detrivore

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2 **A clear glass of water with golden oil droplets floats in it. In the water cycle, water vapour in the atmosphere cools and changes into tiny liquid droplets that form clouds. This process is called**



A evaporation

B condensation

C precipitation

D transpiration

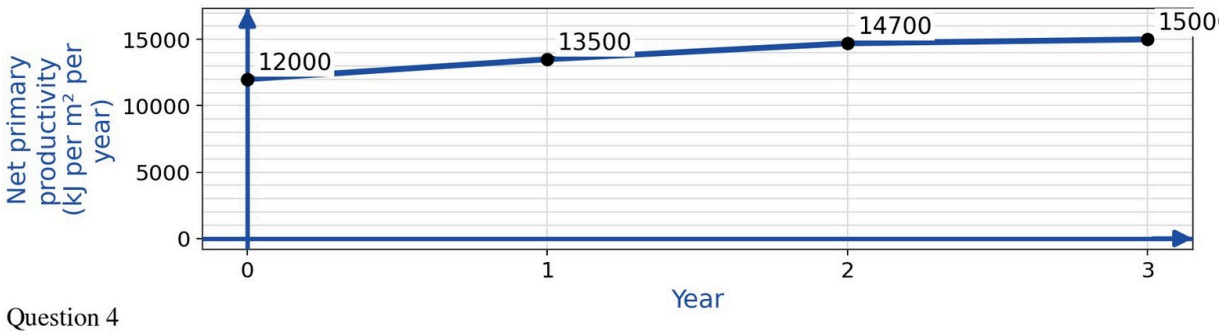
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3 **Clearing a large area of forest increases the amount of carbon dioxide in the atmosphere mainly because**

- **A** soil bacteria stop converting nitrates into nitrogen gas
- **B** rainfall over the cleared area decreases
- **C** the animals of the forest move away and respire elsewhere
- **D** there are fewer trees left to remove carbon dioxide by photosynthesis

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4 **The graph shows the net primary productivity of a meadow over four years. The net primary productivity in year 2, in kJ per m² per year, is _____**



Question 4

The graph shows the net primary productivity of a meadow over four years. The net primary productivity in year 2, in kJ per m^2 per year, is ____

ANSWER

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5

All heterotrophs ultimately depend on autotrophs because autotrophs

A capture light energy and store it in food that other organisms can use

B return nitrogen compounds to the soil when they die

C break down dead organisms and recycle their nutrients

D obtain energy by consuming other organisms

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ANSWER KEY

1. C
2. B
3. D
4. 14700
5. A

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