NUNAVUT SCIENCE 20 · UNIT D · 10 QUESTIONS

Changes in Living Systems — 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 **Denitrification is the process by which bacteria convert**

- A nitrogen gas into ammonia
- B nitrates back into nitrogen gas
- C ammonia into nitrites
- D proteins into amino acids

Understand It with Pulse | Flag a mistake

2 **Which factor is a density-dependent limiting factor for a deer population?**

- A a disease spreading through the herd
- B a severe winter storm
- C a forest fire
- D a long drought

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3 **A population of 800 rabbits produced 96 offspring in one year. The per capita birth rate, expressed as a decimal, is**

ANSWER _____

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4 **Burning fossil fuels affects the carbon cycle mainly by**

A removing carbon dioxide from the air

B increasing the rate of photosynthesis

C storing more carbon in the oceans

D releasing stored carbon into the atmosphere as carbon dioxide

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5 **When wolves were reintroduced to Yellowstone National Park, elk grazing decreased, willow trees recovered, and stream banks stabilized. This is an example of**

- A biomagnification
- B primary succession
- C a trophic cascade
- D nitrogen fixation

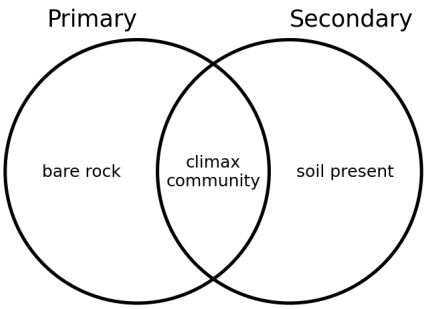
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6 **An ecological footprint that is larger than the resources Earth can renew indicates that human activity is**

- A unsustainable in the long term
- B in balance with nature
- C reducing the global population
- D restoring biodiversity

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7 **The Venn diagram compares primary succession and secondary succession. The description shown only for secondary succession is**



- **A** it begins on bare rock
- **B** it begins where soil is already present
- **C** it starts with lichens
- **D** it never reaches a climax community

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8 **Some levels of ecological organization are listed below. 1 A population 2 The biosphere 3 An individual organism 4 A community The order of these levels, from smallest to largest, is Record your answer as a four-digit number.**

ANSWER _____

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9 **Worldwide, the leading cause of species extinction today is**

A natural climate cycles

B habitat destruction and fragmentation

C disease outbreaks in wild populations

D competition between native species

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10 **Bees pollinate flowering plants while feeding on their nectar, so both species benefit. This relationship is an example of**

A parasitism

B competition

C mutualism

D predation

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ANSWER KEY

1. B
2. A
3. 0.12
4. D
5. C
6. A
7. B
8. 3142
9. B
10. C

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