Homeostasis and Population Dynamics — Practice Test

Ontario Biology, Grade 12, University Preparation (SBI4U) • 10 questions

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 **Which substance is normally absent from urine in a healthy person**

- A Urea
- B Water
- C Glucose
- D Salts

Understand It with Pulse | Flag a mistake

2 **Abiotic factors that affect a population include**

A Competitors

B Parasites

C Predators

D Temperature and rainfall

Understand It with Pulse | Flag a mistake

3 **Biotic potential is the maximum growth rate of a population under**

A No births

B Ideal conditions

C Carrying capacity

D Limiting conditions

Understand It with Pulse | Flag a mistake

4 **Environmental resistance includes all factors that**

- A Increase birth rate
- B Cause immigration
- C Remove predators
- D Limit population growth

Understand It with Pulse | Flag a mistake

5 **A population pyramid with a wide base indicates a population with**

- A No births
- B Equal ages at all levels
- C Many young people and fast growth
- D Many old people and decline

Understand It with Pulse | Flag a mistake

6 **Eutrophication of a lake is often caused by excess**

- A Oxygen
- B Carbon dioxide only
- C Sand
- D Nutrients such as nitrates

Understand It with Pulse | Flag a mistake

7 **Secondary succession differs from primary succession because soil is**

- A Frozen
- B Toxic
- C Absent
- D Already present

Understand It with Pulse | Flag a mistake

8 **Which factor is an example of intraspecific competition**

A Lions competing with hyenas

B A bee pollinating a flower

C Two oak trees competing for light

D A fox eating a rabbit

Understand It with Pulse | Flag a mistake

9 **A keystone species has an effect on its community that is**

A Disproportionately large for its abundance

B Only seen in winter

C Limited to its own population

D Small relative to its abundance

Understand It with Pulse | Flag a mistake

10 **A population of 400 grows by 40 births and loses 20 deaths in one year with no migration. The population after one year is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	A
2.	D	**6.**	D	**10.**	420
3.	B	**7.**	D		
4.	D	**8.**	C		

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