

APOLLO

Adaptation to environment

HL

Biology

First assessment 2025

4 questions | questions

- 35.** Which conditions are characteristics of tundra biomes?
- A. Extreme temperature range and high precipitation
 - B. High temperatures and high precipitation
 - C. Moderate temperatures with distinct seasonal changes
 - D. Low temperatures with low precipitation

1. Which characteristic of the ringed seal (*Pusa hispida*) is a consequence of the viscosity of water?
- A. Streamlined body
 - B. Sharp teeth
 - C. Claws
 - D. Lungs

39. Which of the following could be a subject of phenological research?

- A. Timing of budburst in a tree species each year
- B. Changes in allele frequencies in a population over time
- C. The relationship between changes in ocean acidification and carbon dioxide concentration
- D. The emergence of a new species of migratory bird by divergent evolution

Turn over

Section A

Answer **all** questions. Answers must be written within the answer boxes provided.

6. The photo shows vegetation in the Sonoran Desert, which is part of the hot desert biome.



- (a) State what a biome is.

[2]

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- (b) Explain **three** adaptations of plants that can help them survive in the dry conditions of hot deserts.

[3]

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- (c) State **one** adaptation of plants in hot deserts that can help them to resist herbivory.

[1]

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