

B16 - Adaptation, Interdependence and Competition

<u>Question</u>	<u>Answer</u>
Describe the characteristics of a stable community	Constant environmental factors. High biodiversity. Can recover from environmental change. Hard to replace once lost.
Define interdependence	The dependence of two or more organisms on one another.
Define an abiotic factor	Non-living components that can affect organisms within a community.
Name the different abiotic factors	Light intensity, temperature, soil pH, moisture, wind, mineral content, oxygen and carbon dioxide levels.
Define biotic factor	Living components that can affect organisms within a community.
Name the different biotic factors	Food availability, predators, parasites and pathogens, competitors.
Name what animals compete for	Territory, mates, food.
Name what plants compete for	Space, light, water, nutrients.
Give the two types of competition	Interspecific = between different species. Intraspecific = between same species.
Name the three types of adaptation	Structural - physical features e.g. gills. Behavioural - behaviours e.g. nocturnal. Functional - reproduction & metabolism.
Describe adaptations for animals in cold climates	White fur, small ears, thick fur, thick blubber, small SA:V.
Describe adaptations for animals in hot climates	Brown fur, large ears, thin fur, large SA:V, concentrated urine, nocturnal behaviours.
Describe how plants are adapted for hot climates	Few stomata, small SA, curled leaves, widespread roots.
Define an extremophile	Organisms that can survive and reproduce in extreme conditions (mostly microorganisms).
Name two methods can be used to sample a habitat	Quadrats and line transects.

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