

QUIZ TIME

1. Test your vocabulary by matching each term to its correct definition, as identified by its preceding letter code.

adaptation	A Statistics used to quantify the heterogeneity of a system. Often used in ecological studies to assess environmental health.
allopatric speciation	B A formal system of naming species of organisms by giving each a Latin name composed of two parts
biodiversity	C Speciation in which the populations are physically separated.
bioinformatics	D The number or variety of species living within given ecosystem, biome, or on the entire Earth. Incorporates species richness as well as genetic and habitat diversity.
binomial nomenclature	E The science of collecting, storing and analysing biological data using computer science.
conservation	F A heritable characteristic of a species, which is shaped by natural selection and equips the species for its functional role in the environment.
diversity indices	G Conservation methods that operate away from the natural environment (e.g. zoo breeding programmes).
domain	H The evolutionary history of a species or other taxon, hypothesised on the basis of morphological or molecular data.
ex situ conservation	A measure of an organism's genetic contribution to the next generation.
fitness	J The act of preserving, protecting, or restoring something (e.g. an organism or habitat).
in-situ conservation	K The situation in which members of a group of organisms breed with each other but not with members of other groups.
natural selection	L Speciation as a result of reproductive isolation without any physical separation of the populations, i.e. populations remain within the same range.
phylogeny	M Group of organisms capable of breeding together to produce viable and fertile offspring.
reproductive isolation	N The process by which heritable traits become more or less common in a population through differential survival and reproduction.
species	O Conservation efforts that take place on site involving whole ecosystem management.
sympatric speciation	P The highest taxonomic rank in the revised classification of life based on recognition of prokaryote diversity.

2. Describe in words the species richness and evenness of ecosystem A and B (below):







answers

- adaptation (F), allopatric speciation (C), biodiversity (D), bioinformatics (E), binomial nomenclature (B), conservation (J), diversity indices (A), domain (P), *ex-situ* conservation (G), fitness (I), *in-situ* conservation (O), natural selection (N), phylogeny (H), reproductive isolation (K), species (M), sympatric speciation (L)
- 2. A: High species evenness but with a low species richness. B: Low species evenness but high species richness.