

18 Biodiversity, classification, and conservation

18.1 Biodiversity

Biodiversity is much more than a list of all the species in a particular area.

a) Species, ecosystem, and niches

➤ **species** – a species is a group of organisms with similar morphology and physiology, which can breed together to produce fertile offspring and are reproductively isolated from other species

➤ **ecosystem** – an ecosystem is a relatively self-contained, interacting community of organisms, and the environment in which they live and with which they interact

• **habitat** – a habitat describes the place where a species lives within an ecosystem

➤ **niche** – a niche is the role of an organism in an ecosystem

b) Biodiversity

• **biodiversity** – the degree of variation of life forms in an ecosystem

Biodiversity is considered at three levels –

a) variation in ecosystems or habitats

b) the number of species and their relative abundance (species diversity)

c) genetic variation within each species

a) variation in ecosystems or habitats

Some ecosystems are dominated by one or two species and other species may be rare. This is true in the case of natural pine forests in Florida and temperate forests in Canada which are dominated by a few tree species.

Other areas might have much higher biodiversity, such as coral reefs. It offers many different ecological niches, which are exploited by many different species.

b) the number of species and their relative abundance

This is also known as species diversity.

Species diversity takes species richness into account, but also includes a measure of the evenness of the abundance of different species

• the more species there are and the more evenly the number of organisms is distributed among the different species, the greater the species diversity

- ecosystems with high species diversity are more stable and able to resist changes
- the tropics are important centres for diversity (living conditions not extreme, high light intensity all year, animals don't have to expend energy keeping warm)

c) genetic diversity

Genetic diversity is the diversity of alleles within the genes in the genome of a single species.

How genetic diversity within a species can be assessed

By finding out –

- 1) what proportion of genes have different alleles?
- 2) how many alleles are there are per gene?

c) Sampling

There are two types of sampling – random sampling and systematic sampling.

a) Random sampling

This is a sample that fairly represents a population because each member has an equal chance of inclusion.

When should random sampling be used?

- 1) when an area looks reasonably uniform
- 2) no clear pattern to the way the species is distributed

*samples must be taken randomly to avoid bias

b) Systematic sampling

Systematic sampling is used investigate species distribution where physical conditions change e.g., altitude, soil moisture content, soil pH, light exposure/ intensity.

Methods of systematic sampling

- 1) line transects
- 2) belt transects

d) Methods to assess the distribution and abundance of organisms in a local area

METHOD	TYPE
1) frame quadrats	random
2) mark-release-recapture	random
3) line transects	systematic
4) belt transects	systematic

Biodiversity And Classification Study Guide Answers

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