1. **Biodiversity** is…

   ☐ the amount of rain

   ☐ the variety of life at all levels

   ☐ the number of people

   ☐ a single species

2. **Ecosystem services** are…

   ☐ the benefits people get from nature

   ☐ a kind of law

   ☐ a type of pollution

   ☐ jobs at a zoo

3. Island biogeography says the number of species on an island is a balance between…

   ☐ day and night

   ☐ summer and winter

   ☐ arrivals and extinctions

   ☐ rain and sunshine

4. **Ecological tolerance** is…

   ☐ the number of species in an area

   ☐ the range of conditions a species can survive in

   ☐ the age of an ecosystem in years

   ☐ how patient an animal is with others

5. A natural **disruption** is…

   ☐ a human factory

   ☐ the normal daily cycle

   ☐ a natural event that disturbs an ecosystem

   ☐ a new species being born

6. Birds flying south for winter is a _____ adaptation.

   _____

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   _____

8. The variety of genes within a single species is called _____ diversity.

   _____

9. Nature controlling floods, water quality, or climate is a _____ service.

   _____

10. An island far from the mainland usually receives more new species than a closer one.

    ☐ True ☐ False

1. **the variety of life at all levels**

   Biodiversity is the variety of life – genes, species, and ecosystems.

2. **the benefits people get from nature**

   Ecosystem services are the many free benefits – food, clean water, climate control – that nature provides.

3. **arrivals and extinctions**

   Species number balances **immigration** (arrivals) against **extinction** (losses) on the island.

4. **the range of conditions a species can survive in**

   Ecological tolerance is the range of conditions (like temperature) a species can survive.

5. **a natural event that disturbs an ecosystem**

   A natural **disruption** – fire, storm, flood, disease – disturbs an ecosystem's balance.

6. **behavioural**

   Migration is a **behavioural** adaptation – an action that helps survival.

7. **pioneer**

   Pioneer species like lichens and mosses arrive first and begin building soil.

8. **genetic**

   Genetic diversity is the variety of alleles within a species – the raw material for adapting.

9. **regulating**

   Regulating services are ways nature controls conditions – flood control, pollination, climate.

10. **False**

    False. Closer islands are easier to reach, so more species immigrate to them. Distant islands receive fewer colonists.

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