

## Conservation

**Q1** The following passage is about an **endangered** species.

Rough grassland and hedgerows are favorite habitats of mice. Barn owls are predators of mice. They can often be seen flying along roadsides at night. Barn owls nest in old hollow trees or barns. Modern farming methods are reducing barn owl populations.



- a) Name the **endangered** species mentioned in the passage.
- b) What does **endangered** mean?
- c) **What** can happen to endangered species if nothing is done to help?
- d) **Suggest** why barn owls often fly along **roadsides**.
- e) Suggest **two** ways in which **farming** might be reducing barn owl populations.
- f) Give **two** things that could be done to help **protect** barn owls.

**Q2** Stocks of **cod** in the North Atlantic have fallen to very low levels because of **overfishing**. Various measures have been introduced to help increase cod numbers.

- a) Suggest why fishing has become more **efficient** in recent years.
- b) One problem of modern fishing is that **trawl nets** scrape along the sea bed, damaging many small invertebrates. What effect would this have on other organisms in the sea?
- c) **Describe** measures that could be taken to prevent **juvenile** cod from being caught.
- d) **Explain** why the ban on catching juvenile cod is so important.

*Remember we kill plants and animals in two ways...*

As well as killing plants and animals directly, we also threaten their existence by destroying their habitats. Learn the barn owl and cod examples and make sure you know how to adapt the issues to other species.

## Individual Choices and Societal Actions

- Q1 What is meant by **sustainable development**?
- Q2 Give three ways in which we can still produce a plentiful supply of food for the growing population, **without** disrupting the balance of ecosystems.
- Q3 Logging companies in Brazil cut down large areas of forest and turn the land into **farmland**. They turn the cut-down trees into **timber** for furniture. The **nutrients** in the soil get washed away, and after a few years it isn't any good for growing crops.



- a) Give a **short-term** benefit of this kind of logging.
- b) Is this an example of **sustainable development**?
- c) Describe a **sustainable** way of cutting down trees for timber.
- Q4 Stocks of **cod** in the Atlantic are running low. Governments set **quotas** for cod fishermen. This means that the fishermen are only allowed to catch a **certain number** of fish. Some governments only allow cod fishermen to fish for **two weeks** out of each **month**.
- a) **Explain** why the quotas might seem like a bad idea in the **short-term**.
- b) **Explain** why the quotas might be a good idea in the **long-term**.
- Q5 In the future, the USA may make increasing use of **wood burning** in order to produce electricity. The wood used is sourced from specially cultivated forests. Wood burning in this way is **economical**. There is only a **low** impact on the **environment**, since much of the **carbon dioxide** released by burning the wood is **balanced** by the carbon dioxide absorbed by the growing trees.
- Comment on the **sustainability** of this method of producing electricity.