

Conservation review

1

An area of forest has been made a nature reserve. It is surrounded by farmland with several towns. Describe some of the changes that might occur in the area following its protection in this way.

E.g. Briefly describe a named protected area or nature reserve that you have studied and explain how it has been managed to protect its biodiversity.

2

eg increase in landscape variation to increase range of habitats/ planting of more trees and bushes/ digging of ponds/ building sluices to stop water loss/ education of people living nearby/cattle grazing to keep biodiversity high

OR runoff from farmland causing water pollution/ disturbance of wildlife by humans/ contamination of forest ecosystem by pesticides/ spreading of exotic species from cultivated areas (weeds, feral cats)

3

- Explain the term biodiversity
- List four arguments for the preservation of biodiversity
- Describe the processes that may lead to the formation of new species.
- Discuss the relative advantages and disadvantages of a species-based conservation strategy compared to the use of reserves.

4

- A general term for diversity which includes species, habitat and genetic diversity per unit area
- Ethical, aesthetical, genetic resource for humans, commercial resources, life-support functions,
- Easier to involve humans in identification of attractive species eg WWF and pandas; breeding programmes in zoos increase numbers; possible to control international trade (CITES) BUT not protecting habitats; organisms cannot survive without habitat; only focused on endangered/ attractive species; led by public opinion

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- A change takes place that brings about a new environmental pressure (eg a new predator or disease)
- Variation is present in the population, so some have a better chance of survival than others
- So the survivors can reproduce and pass their genes onto the next generation
- A point is reached where the new population has changed so much that it can no longer interbreed with the old population A new species has arisen

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