

## Deforestation

- 1 Deforestation is the removal or clearance of trees in forest areas so that the land or materials can be used by people.
- Deforestation can lead to increases in the amount of carbon dioxide in the atmosphere and to a reduction in biodiversity.
- Explain how deforestation leads to each of these environmental issues.
- Increase in carbon dioxide [1 mark]
- Burning of wood [1 mark]
- Activity of microbes or respiration by microbes [1 mark]
- Less photosynthesis by the trees or plants [1 mark]
- (2 marks)
- Reduction in biodiversity
- Destruction of habitat [1 mark]
- (so) animals don't have food or shelter [1 mark]
- Plants / animals killed or made extinct [1 mark]
- (2 marks)
- 1 (a) (i) Suggest what the benefits of deforestation are to humans.
- Land for farming animals [1 mark]
- Land for growing crops/food [1 mark]
- Land for growing plants for making biofuel [1 mark]
- Raw materials or wood for building, making furniture, (or a named use of the raw materials) [1 mark]
- (2 marks)
- 1 (b) Levels of carbon dioxide and methane in the atmosphere are increasing and contribute to 'global warming'.
- Global warming may lead to a rise in sea levels in the future.
- Give two **other** possible effects of global warming on the Earth.
- Any two from
- Big changes in the Earth's climate
  - Reduce biodiversity
  - Changes in migration patterns, eg in birds
  - Changes in the distribution of species.
  - Changes in flowering times for plants
  - Changes in reproduction cycle of species
- The idea behind this is really that some predictions are hard to make because of the number of factors that are interacting. Try not to say things like 'science is wrong', or 'they might be lying'.
- (2 marks)
- Suggest why scientists cannot be certain about what the effects of global warming might be on the planet.
- It hasn't happened yet or its hard to predict the future or these are only predictions or there may be other factors involved or there may be some effects not thought of.
- (1 mark)
- (Total 9 marks)