

# Human influences on ecosystems practice questions

7 questions • 20 marks • mark scheme at the back

For Cambridge IGCSE Combined Science 0653. **Supplement** is Extended content, only examined on Papers 2 and 4.

Name .....

Total ..... / 20

## Habitat destruction **Spec B16.1**

**1** Which statement describes biodiversity? [1 mark]

- A. ☐ The number of organisms in an area
- B. ☐ The number of different species in an area
- C. ☐ The number of plants in an area
- D. ☐ The number of habitats in the world

**2** State three reasons why habitats are destroyed by human activity. [3 marks]

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**3** Which is an effect of deforestation? [1 mark]

- A. ☐ Less soil is lost
- B. ☐ Less carbon dioxide in the atmosphere
- C. ☐ More flooding
- D. ☐ More biodiversity

**4** Large areas of rainforest are cleared to graze cattle. Explain the undesirable effects of this deforestation. [5 marks]

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**5** Explain how pollution of a river can lead to destruction of the habitat of fish. [2 marks]

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**Conservation** Spec B16.2

**6** Explain why the tiger is an endangered species. [4 marks]

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**7** Supplement [4 marks]

Describe four ways in which an endangered species can be conserved.

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# Mark scheme

One mark for each point unless a maximum is given. Words in brackets are not needed for the mark.

1. [1]

B B (1)

2. [3]

- building houses / more land for housing (1)
- land for crop plants or livestock (1)
- extraction of natural resources / mining / quarrying (1)
- freshwater or marine pollution (1)
- Max 3

3. [1]

C C (1)

4. [5]

- biodiversity reduced as species lose habitat / food (1)
- some species may become extinct (1)
- soil lost / eroded because no roots to hold it (1)
- flooding because less water absorbed by roots / more run-off (1)
- carbon dioxide increases because fewer trees to photosynthesise / trees burnt or decay (1)

5. [2]

- pollutants (e.g. sewage / fertiliser / plastic) make the water unsuitable / poisonous / reduce oxygen (1)
- so fish die or move away / cannot live there (1)

6. [4]

- habitat destruction / forests cleared (1)
- so less food / shelter / breeding sites (1)
- hunting / killed for body parts faster than they reproduce (1)
- any other valid: climate change / pollution / introduced species / overharvesting of prey (1)

7. [4] **Supplement**

- monitoring populations (1)
- protecting species and habitats / reserves (1)
- education (1)
- captive breeding programmes (1)
- seed banks for plants (1)
- Max 4