2.5 Tropical Rainforests: Causes and Impacts of Deforestation: 10-minute Pack

AQA 8035 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Describe how subsistence farming causes deforestation in the Amazon region, naming the agricultural practice involved.

(Total for Question 1 is 2 marks)

2 Table 1 gives illustrative Amazon deforestation rates by decade for a practice exercise. Use this data to answer parts a and b.

Table 1, Amazon illustrative deforestation area per decade (thousand hectares):
1970s: 4000
1980s: 7000
1990s: 10000
2000s: 8500
2010s: 6000

(a) Describe the pattern shown by the rates of deforestation in the Amazon across the decades in Table 1. **(3)**

(b) Suggest one reason for the decrease in deforestation between the 1990s and the 2010s in the Amazon. **(1)**

(Total for Question 2 is 4 marks)

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3 Explain how deforestation affects soil quality in the Amazon, naming one process involved.

(Total for Question 3 is 2 marks)

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4 Table 2 gives illustrative estimates of Amazon forest cover remaining, as a percentage of its 1970 extent, for a practice exercise.

Table 2, forest cover remaining (% of 1970 extent):
1970: 100
1990: 88
2010: 80
2020: 77

Calculate the percentage change in forest cover remaining between 1990 and 2020.

(Total for Question 4 is 2 marks)

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Mark scheme · 2.5 Tropical Rainforests: Causes and Impacts of Deforestation: 10-minute Pack

Question 1

clearing small areas of forest for crops or small-scale cattle, oe **B1**

slash-and-burn agriculture is often used, which removes vegetation and reduces forest cover, oe **B1**

Answer: Small areas of forest are cleared for crops or small-scale cattle rearing, typically using slash-and-burn agriculture which removes vegetation and reduces forest cover.

Question 2

(a) deforestation rose from the 1970s to a peak in the 1990s, oe **B1**

(a) values: 4,000 -> 7,000 -> 10,000 thousand hectares, oe **B1**

(a) after the 1990s rates fell in the 2000s and 2010s to 8,500 then 6,000, showing a decline, oe **B1**

(a) Answer: Deforestation rates rose from the 1970s to a peak in the 1990s (4,000 -> 7,000 -> 10,000 thousand hectares) and then fell in the 2000s and 2010s to 8,500 and 6,000 thousand hectares respectively.

(b) government policies and enforcement reduced clearing, e.g. creation of protected areas or improved enforcement against illegal logging, oe **B1**

(b) Answer: Stronger government policies and enforcement reduced clearing, for example through creating protected areas and cracking down on illegal logging.

Question 3

removal of tree cover exposes soil to heavy rain and erosion, oe **B1**

nutrient leaching and loss of the thin topsoil layer reduces fertility, oe **B1**

Answer: Removing tree cover exposes soil to heavy rain and erosion, and nutrients are leached away so the thin topsoil layer is lost, reducing soil fertility.

Question 4

(77 - 88) / 88 x 100 seen, oe **M1**

decrease of 12.5% cao **A1**

Answer: A decrease of 12.5%.

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