2.3 Ecosystems and Tropical Rainforests: 10-minute Pack

Total Marks

AQA 8035 · Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 This question is about the basic components of an ecosystem.

(a) State what is meant by an ecosystem. **(1)**

(b) Name the role played by a green plant in an ecosystem's food chain, and explain why it has this role. **(2)**

(Total for Question 1 is 3 marks)

2 This question is about the causes of deforestation in tropical rainforests. Explain two causes of deforestation in tropical rainforests.

(Total for Question 2 is 4 marks)

3 Explain how ecotourism can contribute to the sustainable management of a tropical rainforest.

(Total for Question 3 is 3 marks)

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Mark scheme · 2.3 Ecosystems and Tropical Rainforests: 10-minute Pack

Question 1

(a) a community of living organisms interacting with each other and with their physical (non-living) environment, oe **B1**

(a) Answer: A community of living organisms interacting with each other and with their physical environment.

(b) producer **B1**

(b) it makes its own food using energy from sunlight (photosynthesis), so it is the first organism in the food chain, oe **B1**

(b) Answer: Producer; it makes its own food using energy from sunlight through photosynthesis, so it is the first organism in the food chain.

Question 2

cause 1, e.g. cattle ranching and commercial farming, to grow crops or raise livestock for export, oe **B1**

linked detail, e.g. large areas of forest are cleared, often by burning, to create pasture or farmland, oe **B1**

cause 2, e.g. logging (legal and illegal) and road building, oe **B1**

linked detail, e.g. roads built to access logging or mining sites also open up previously inaccessible forest to further clearance by settlers, oe **B1**

Answer: For example: cattle ranching and commercial farming, where large areas are cleared, often by burning, to create pasture or cropland; and logging and road building, where roads built to access timber or mineral sites also open up the forest to further clearance by settlers.

Question 3

ecotourism generates income from visitors wanting to experience the rainforest's wildlife and scenery, without clearing it, oe **B1**

this gives local communities and governments a financial incentive to protect the forest rather than clear it for farming or logging, oe **B1**

it can also create local jobs, e.g. as guides or in lodges, reducing reliance on activities that damage the forest, oe **B1**

Answer: Ecotourism generates income from visitors wanting to experience the rainforest without clearing it, giving local communities and governments a financial incentive to protect the forest, and creates local jobs such as guiding, reducing reliance on activities that damage the forest.

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