

Topic Tests for GCSE Edexcel B Geography

Component 3: Topic 8: Forests Under Threat

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Teacher's Introduction

This resource has six tests on Component 3, Topic 8: Forests under threat, for the GCSE Edexcel B Geography specification. Every key aspect of the specification is covered in this resource.

These topic tests are designed to test the students' knowledge and enable the teacher to diagnose the students' strengths and weaknesses in certain areas. Each test covers a range of question types, and there is a wide variety of stimulus material. These tests are not intended to mimic exam papers.

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Mark schemes for each topic test can be found at the provided. For 'open' and extreme that been included.

When to U

This resourc used at the end of a particular topic area, or at the end of the who consolidation or knowledge. The students can also use the tests towards the end of the either before or after revision. There is scope to provide your students with one test GCSE course over two years.

How to Use This Resource

The tests can be completed individually in class, or set as homework tasks. The tests student or the teacher, at home or in the classroom, as answers are provided.

These structured tests provide an opportunity to mark and score students in order to provided in write-on and non-write-on formats to suit the requirements of the teachers.

The Benefits to the Student

Students can be confident they have been tested on every key aspect of the specifical will know which areas they are strong in, and which require further work, and can set learning. The answer sections also provide students with an indication of what a good

Differentiation

In order to support lower-ability students while pushing the more able, each test has first section has approximately 40 marks and has been written to test knowledge of the specification. These questions are for all students and the difficulty or complexity of the test. The second section has approximately 10 further marks of extension questions.

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Test 2 – Threats to the Rainfore

Give a definition for the term 'deforestation'. Distinguish between commercial and subsistence farming. The aerial photograph shows the process of deforestation in the Amazo Suggest two possible causes of this deforestation, and identify two pro may cause. Cause 1 Cause Effect 1:

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Effect 2:

4a. Complete the table below which shows four causes of rainforest destruand provide **two** ways that damage **to the environment** is caused by the

Identification 1. STON COPY 2. 1. 2. or 1. ON COP 2. 1. 2.

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4b. Describe two economic impacts and two social impacts caused by the rainforests. Economic impacts: Social impacts: Distinguish between direct and indirect threats to rainforests. 6a. Explain why climate change is an indirect threat to rainforests. INSPEC

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	Outline how climate change could affect tropical ra	inforests.
		•••••
1	Define the terms 'drought' System stress'.	<u> </u>
	Zig Education	
	Rank the following causes of deforestation in order	– 1 being the larg
	Cause	– 1 being the larg
		– 1 being the larg
	Cause	– 1 being the larg
	Cause Small-scale agriculture	– 1 being the larg
	Small-scale agriculture Large-scale agriculture	– 1 being the lar
	Cause Small-scale agriculture Large-scale agriculture Cattle ranching	

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10. Suggest a possible cause for the smoke in the photograph below. Zio INSPECTION COPY 11. Explain why 'slash-and-burn' is sustainable.

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Extension Questions

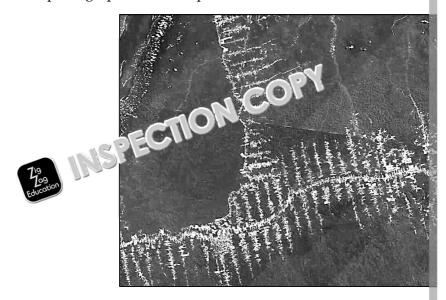
	~
12.	Assess which of the following is more damaging to the environment: farming.
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13.	'Causes of deforestation such as dam building or commercial agricult and negative impacts.' Assess what could be meant by this statement
14.	Suggest how damaging road building is within rain prest environmen
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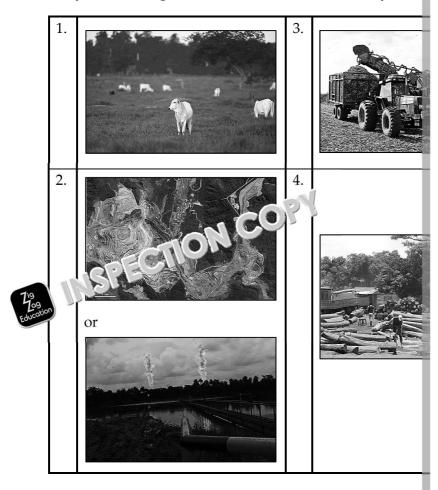
Test 2 – Threats to the Rainfore

- 1. Give a definition for the term 'deforestation'.
- 2. Distinguish between commercial and subsistence farming.
- 3. The aerial photograph shows the process of deforestation in the Amazo



Suggest **two** possible causes of this deforestation, and identify **two** prodeforestation may cause.

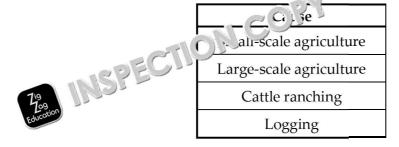
4a. The table below shows four causes of rainforest destruction. Identify e provide **two** ways that damage **to the environment** is caused by the ac



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- 4b. Describe **two** economic impacts and **two** social impacts caused by the rainforests.
- 5. Distinguish between direct and indirect threats to rainforests.
- 6a. Explain why climate change is an indirect threat to rainforests.
- 6b. Outline how climate change could affect tropical rainforests.
- 7. Define the terms 'drought' and 'ecosystem stress'.
- 8. Rank the following causes of deforestation in order 1 being the larges



- 9. Explain why rainforest soils quickly deteriorate after deforestation has
- 10. Suggest a possible cause for the smoke in the photograph below.

11. Explain why 'slash-and-burn' is sustaina le

Extension Quantile

- 12. Assess (2000) of the following is more damaging to the environment: s commercial farming.
- 13. 'Causes of deforestation such as dam building or commercial agriculture positive and negative impacts.' Assess what could be meant by this statement of the could be meant by the statement of the could be meant by the statement of the could be meant by the coul
- 14. Suggest how damaging road building is within rainforest environment

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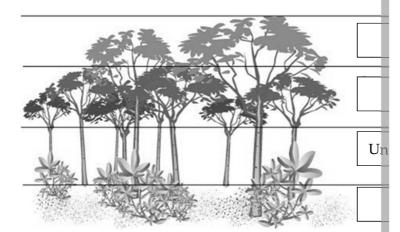
Answers

Test 1 - The Structure and Adaptations of Tropical Rainfo

- 1a. High all-year temperature above 25 °c, except for December (1 mark). Slightly his September (28 °c). Rainfall is seasonal (1 mark), dry season in the summer (1 mark) of mm, winter and springs are wet (1 mark) with around 250 mm of rainfall per month is March, with over 300 mm per year (1 mark).
- 1b. There are very few limiting factors to growth (1 mark) such as warmth (1 mark), and high rainfall (1 mark). This results in a year-round growing season (1 mark) to the equator (1 mark).
- 1c. Rainforests must occur closer to the end (1 ark) where there is sufficient rewouldn't be enough rainfall to 1 ark), leading to a transition to s
- 2. There are refreshed five getation (1 mark mandatory). For example, there forest mark), there is often a shrub layer (1 mark), an understorey (1 mark) emerge. Education of the tallest trees (1 mark).

Also allow responses such as:

The rainforest is divided into several distinct layers, as shown on the annotated



3a.

Problem	Solution	
Under humid conditions, there is the risk of moulds growing on leaves.	Waxy leaves, with drip tips	Le sh
Trees have to grow very tall to reach the light – they can't fall over.	Buttres	All tre
It is ve Education k on the forest floor.	Layered structure (stratified) Lianas Epiphytes	Lo ve diff ad ma the (e) of his
Trees need to discourage climbing plants.	Slippery bark	Tr cli th

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- 3b. To avoid competition, animals occupy more niches (1 mark).
 - To avoid being preved upon, many animals camouflage themselves (1 mark their lives, seldom reaching the forest floor (1 mark), or may only be active
 - It is very dark on the forest floor, meaning that animals may have large eyes
- 4a. Allow two marks for each of two named, described features (four marks in total)
 - The biomass store is very large (1 mark) because of the high net primary pr year-round growing season (1 mark). The high rate of plant growth (1 mark pathway (1 mark).
 - The litter layer is very small (1 mark), because decay is rapid in the wet and conditions also allow for rapid rates of chemical weathering (1 mark).
 - High rainfall in the rainforest (1 mark) allows for rapid leaching of nutrients
 - Unlike in temperate forest, there are no main real rolls throughout the year of the fallout pathway (1 mark).
 - Soil nutrient stores are reduced (1) had by the large uptake pathway (1 magnetic stores).
 - Allow any other valid it's
- 4b. Biomag
- 4c. Conditions throughout the year are warm (1 mark) and moist (1 mark), which are decomposers (1 mark).
- 5. Award marks for:
 - Suitable species
 - Correct order i.e. suitable location for each trophic level
 - Arrows in the correct place/direction

- Complex (1 mark mandatory).
- ON COPY High biodiversity () and many niches (1 mark).
 - Few !: itin ; to) (1 mark).
 - or posers e.g. insects which are consumed by others (1 mark).
 - rgy ecosystem very high plant biodiversity (1 mark).





Extension Questions

- 7. Discussion of:
 - High plant growth rates due to lengthy growing season and moisture availal
 - Niches and biodiversity.
 - Development of layered structure.
 - Weathering/leaching and nutrient availability.
 - Any other valid point(s).
- 8. The photograph is taken at the emergent layer: Emergent trees (e.g. top left) (1 mark) Canopy (1 mark)
- 9. Very important (1 mark).

Allow any other three points, such as:

- Warm throughout the year e.g. equativi rabins
- High rainfall.
- Intense sunshine (in t' nor, i, gs there are likely to be thunderstorms in convectional r i a j.
- Li' 719 ISC 1 1.
- Al 709 valid point(s).







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