

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography B

Unit 1: Dynamic Planet

Higher Tier

Thursday 20 January 2011 – Afternoon
Time: 1 hour

Paper Reference
5GB1H/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section **A**, answer **ALL** questions.
- In Section **B**, answer **either** question **5** or **6**.
- In Section **C**, answer **either** question **7** or **8**.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Check your answers if you have time at the end.

Turn over ►

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SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions in this section.

Topic 1: Restless Earth

1 Study Figure 1a.

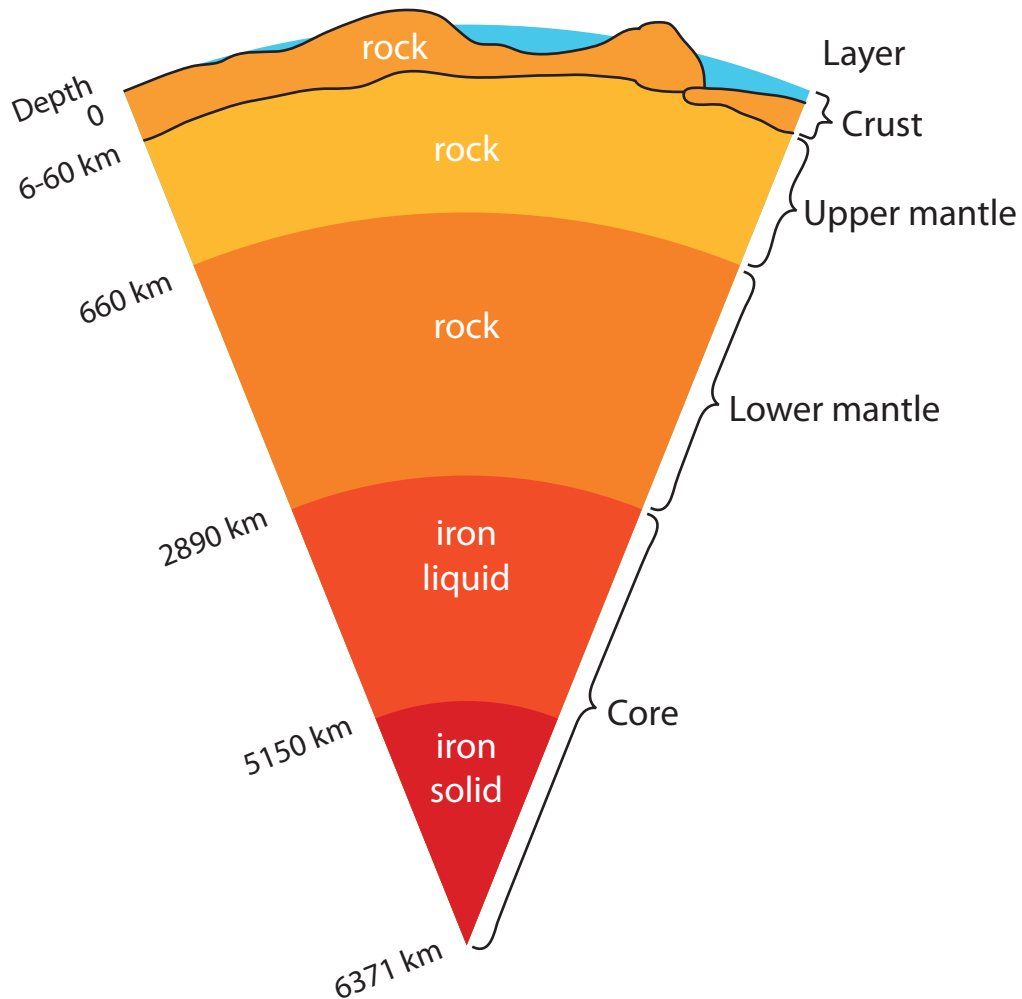


Figure 1a – A cross-section showing the structure of the Earth

(a) (i) Which is the thickest layer of the Earth's cross-section?

(1)

(ii) Which is the densest layer of the Earth's cross-section?

(1)



(b) Study Figure 1b.

Earthquake Location and Year	Number of Deaths
San Francisco (USA) 1989	63
Kobe (Japan) 1995	6 500
Kashmir (Pakistan/India) 2005	79 000
Sichuan (China) 2008	68 000
L'Aquila (Italy) 2009	307

Figure 1b – Number of deaths in recent earthquakes

Suggest **one** reason why the number of deaths varies between earthquakes.

(2)

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(c) For **either** an earthquake **or** a volcanic eruption you have studied, describe the **immediate responses** in managing its impact.

(4)

Named earthquake or volcanic eruption

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(Total for Question 1 = 8 marks)



Topic 2: Climate and Change

2 Study Figure 2.



Figure 2 – Painting of the Little Ice Age (18th century)

(a) Describe how colder periods, such as the Little Ice Age, affected farming.

(2)

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Topic 3: Battle for the Biosphere

3 Study Figure 3.

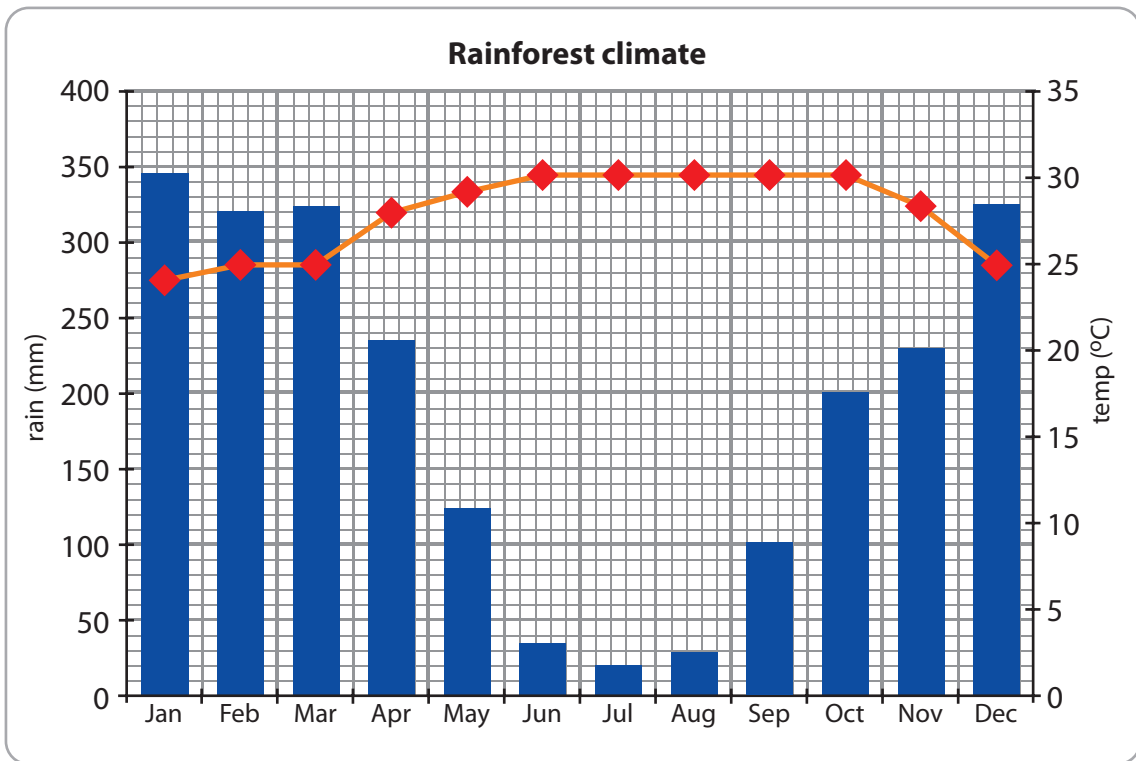


Figure 3 – Tropical rainforest climate graph

(a) Using Figure 3, describe the annual rainfall pattern in Tropical Rainforest regions.

(2)

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(b) Describe **one** way in which people are trying to conserve the biosphere.

(2)

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(c) Describe the value of a named biome in providing goods and services.

(4)

Named biome

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(Total for Question 3 = 8 marks)



Topic 4: Water World

4 Study Figure 4.

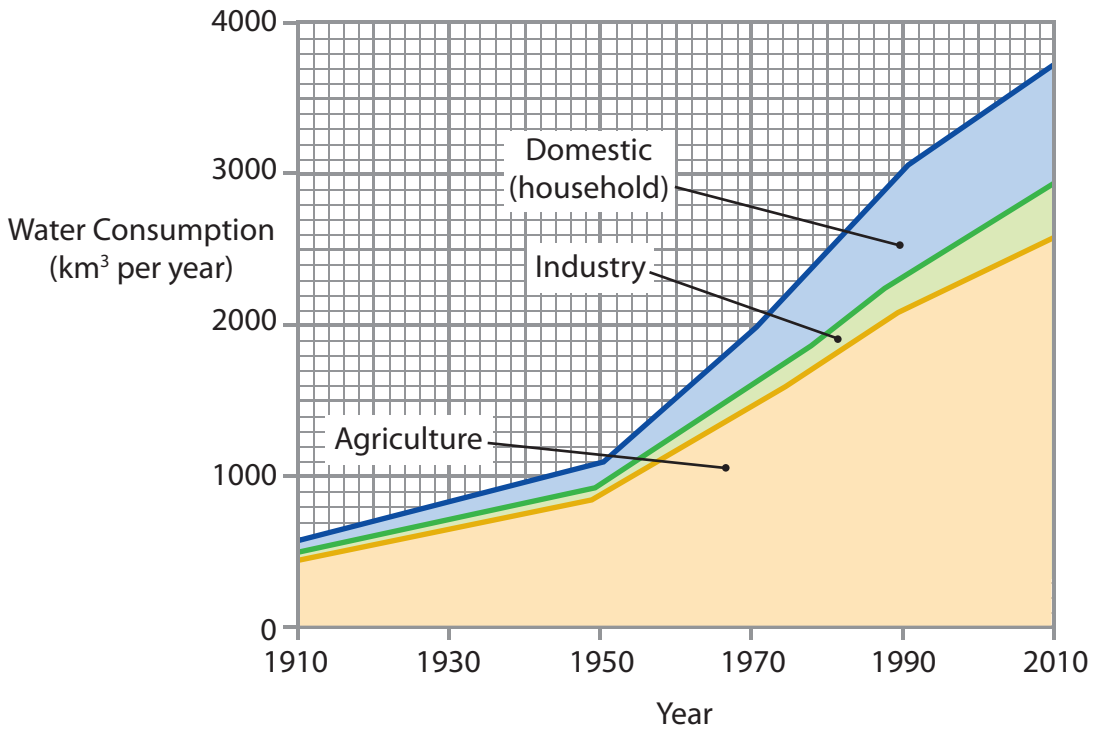


Figure 4 – Changing global water consumption, 1910 – 2010

(a) Describe how the use of water for **agriculture** changed between 1910 and 2010.

(2)

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SECTION B – SMALL-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 5: Coastal Change and Conflict

If you answer Question 5 put a cross in this box .

5 Study Figure 5.



Figure 5 – Spurn Head

(a) Spurn Head is a spit formed by longshore drift.

Describe the process of longshore drift.

You may use a diagram to help your answer.

(3)

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Topic 6: River Processes and Pressures

If you answer Question 6 put a cross in this box .

6 Study Figure 6.



Figure 6 – A photograph of a river in its lower course

(a) Rivers often meander in their lower courses.

Describe how meanders are formed.

You may use a diagram to help your answer.

(3)

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SECTION C – LARGE-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 7: Oceans on the Edge

If you answer Question 7 put a cross in this box .

7 Study Figure 7.

Mangroves create ideal conditions for the spread of diseases.

Mangroves provide protection from storms.

Mangroves can make coastal transport difficult.



Mangroves provide important habitats for fish.

Mangroves reduce soil erosion.

Mangroves can provide important spawning habitats for a number of fish species.

Figure 7 – Features of mangrove swamps

(a) Suggest **one** reason why tourist development on the coast often leads to the clearance of mangrove swamps.

(1)

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Topic 8: Extreme Climates

If you answer Question 8 put a cross in this box .

8 Study Figure 8.



Figure 8 – Tourism advertisement: Aboriginals (Australia)

(a) Suggest **one** reason why an increase in tourism may damage the culture of people living in an extreme climate.

(1)

(b) Describe **one** way in which people living in an extreme climate have adapted to this environment.

(2)



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