Write your name here

| Surname | Other names |
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Centre Number | Candidate Number

**Edexcel GCSE**

# Geography B

## Unit 1: Dynamic Planet

**Higher Tier**

Thursday 14 June 2012 – Morning
**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** the 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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PEARSON

## SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

**Answer ALL questions.**

**Topic 1: Restless Earth**

**1** Study Figure 1.

**Figure 1 – Aerial photograph of a volcanic eruption**

(a) State **two** ways in which a volcanic eruption can endanger human life.

**(2)**

1 .....

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2 .....

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(b) Describe **one** method that can be used to predict when a volcano is likely to erupt.

**(2)**

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(c) Describe how people can prepare for **earthquakes**.

**(4)**

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**(Total for Question 1 = 8 marks)**

**2** Study Figure 2.

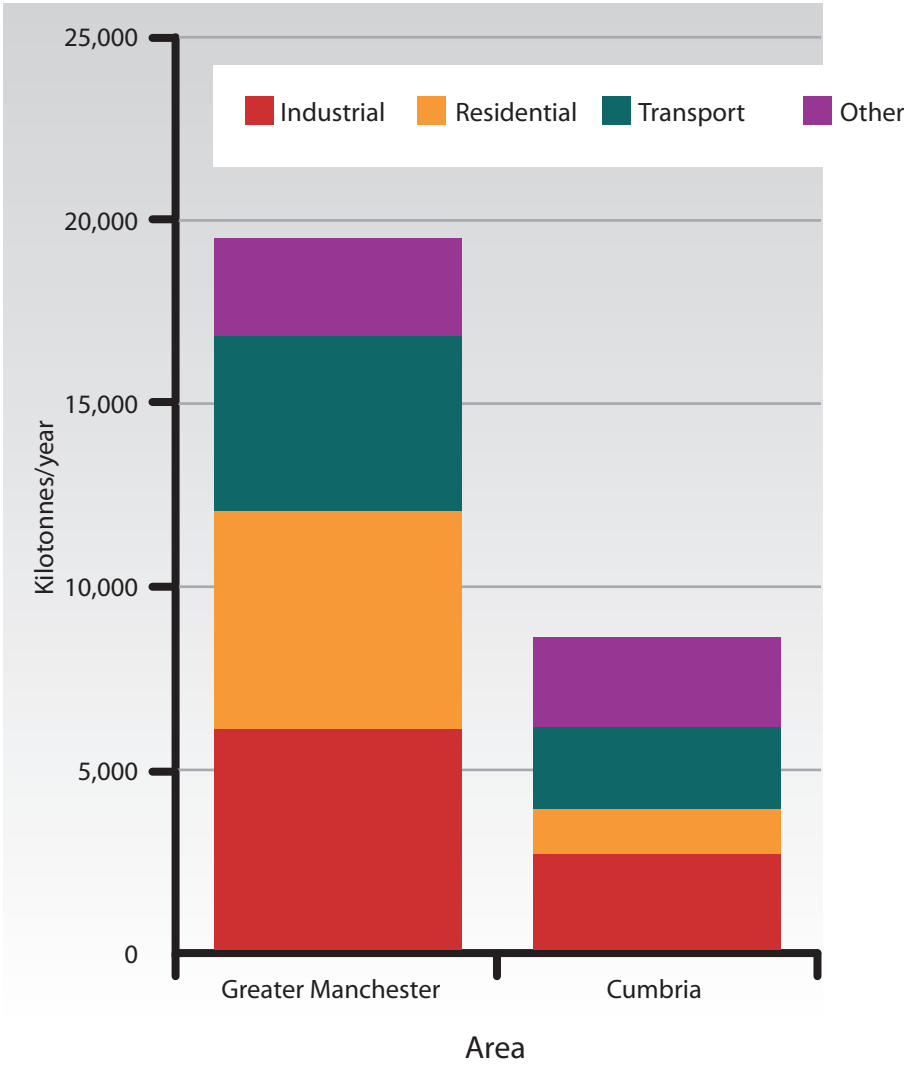


**Figure 2 – Carbon dioxide emissions in selected areas of north-west England**

(a) Suggest **two** reasons why carbon dioxide emissions are higher in Greater Manchester than in Cumbria.

**(2)**

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(b) Describe **one** way in which human activity is contributing to climate change.

**(2)**

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(c) Describe how orbital changes and varying solar output can lead to climate change.

**(4)**

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**(Total for Question 2 = 8 marks)**

**Topic 3: Battle for the Biosphere**

**3** Study Figure 3.

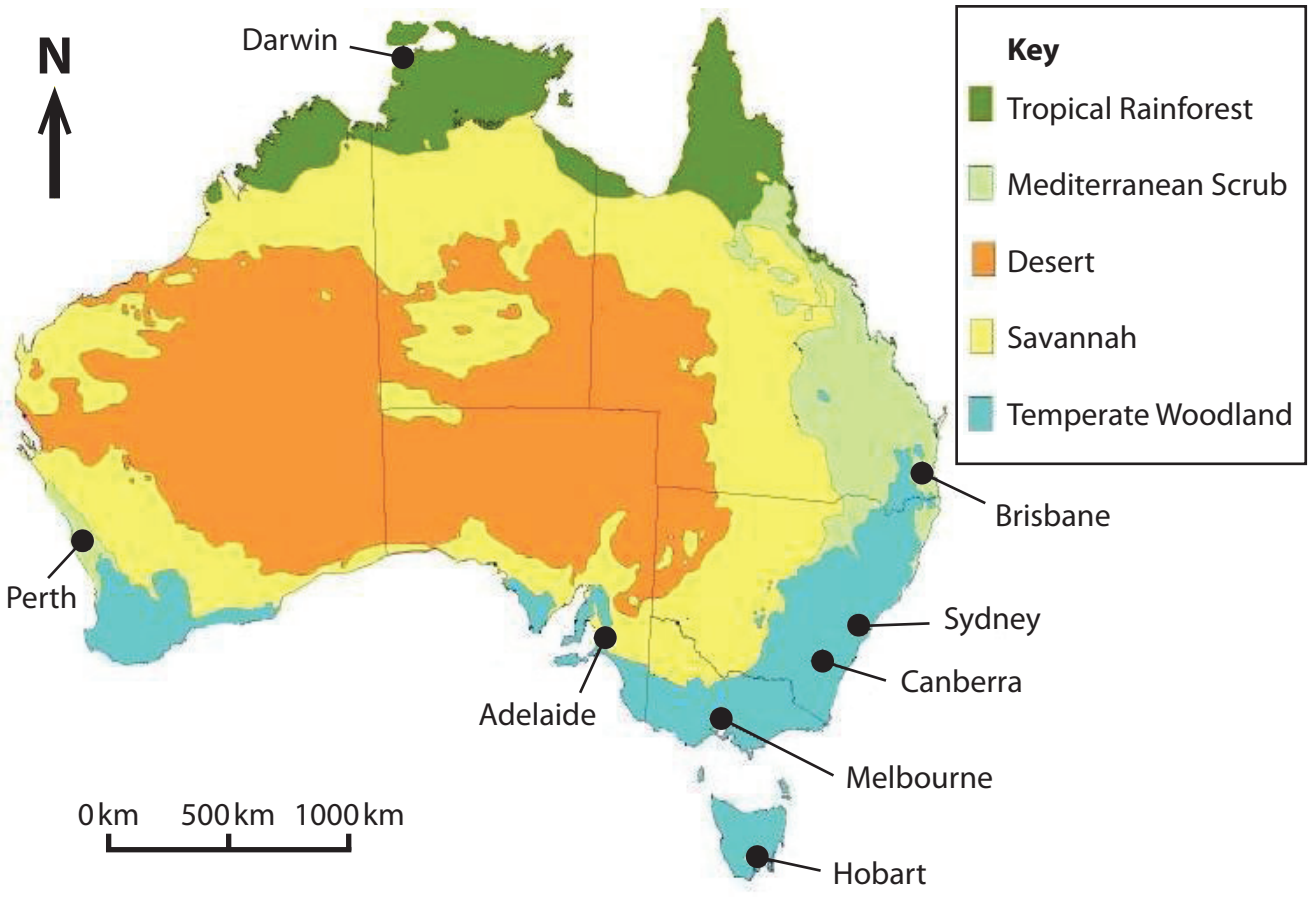


**Figure 3 – Biome distribution in Australia**

(a) Describe the distribution of temperate woodland in Australia.

**(2)**

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(b) For a named biome, describe **one** way it has been damaged by human activity.

**(2)**

Named biome: .....

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(c) Describe the management methods that can be used to conserve the biosphere.

**(4)**

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**(Total for Question 3 = 8 marks)**

**4** Study Figure 4.

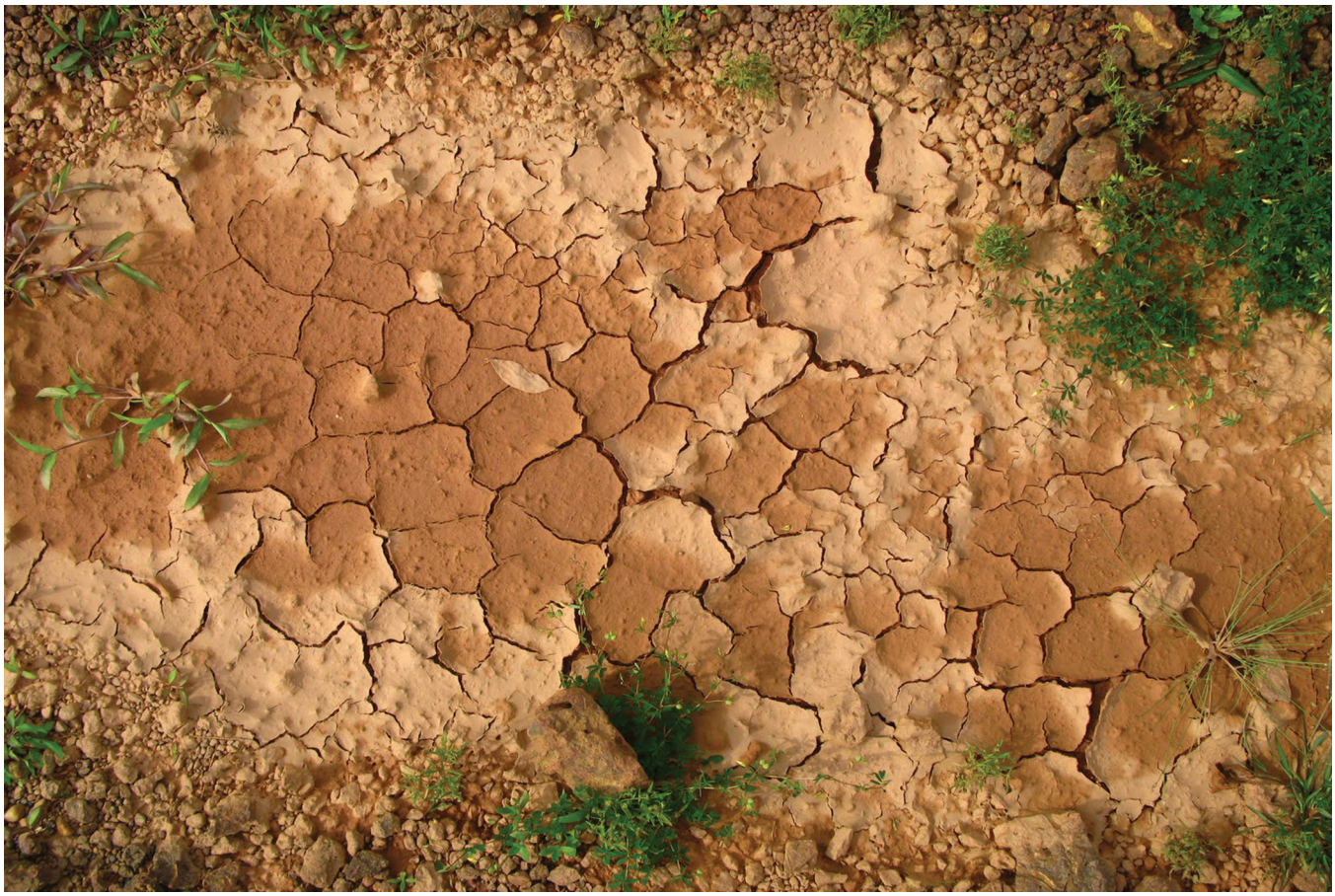

**Figure 4 – Photograph showing the impact of unreliable water supply**

(a) Outline why an **unreliable** water supply can cause problems for farmers.

**(2)**

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(b) Describe **one** human activity that can lead to a reduction in water quality.

**(2)**

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(c) For a named large-scale water management project, describe **one** cost and **one** benefit.

**(4)**

Named project .....

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**(Total for Question 4 = 8 marks)**

**TOTAL FOR SECTION A = 32 MARKS**

## 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 – Photograph of coastal landforms.**

(a) Explain how **one** landform shown in Figure 5 is likely to change in the future.

**(3)**

Chosen landform .....

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*(b) Using examples, explain the benefits of using **modern holistic** (wide ranging) approaches to coastal management.

**(6)**

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**(Total for Question 5 = 9 marks)**

**Topic 6: River Processes and Pressures**

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

**6** Study Figure 6.

**Figure 6 – Photograph of 'High Force' waterfall**

(a) Explain how the waterfall shown in Figure 6 is likely to change in the future.

**(3)**

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*(b) Using examples, explain how human actions can result in an increased risk of flooding.

**(6)**

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**(Total for Question 6 = 9 marks)**

**TOTAL FOR SECTION B = 9 MARKS**

## 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.

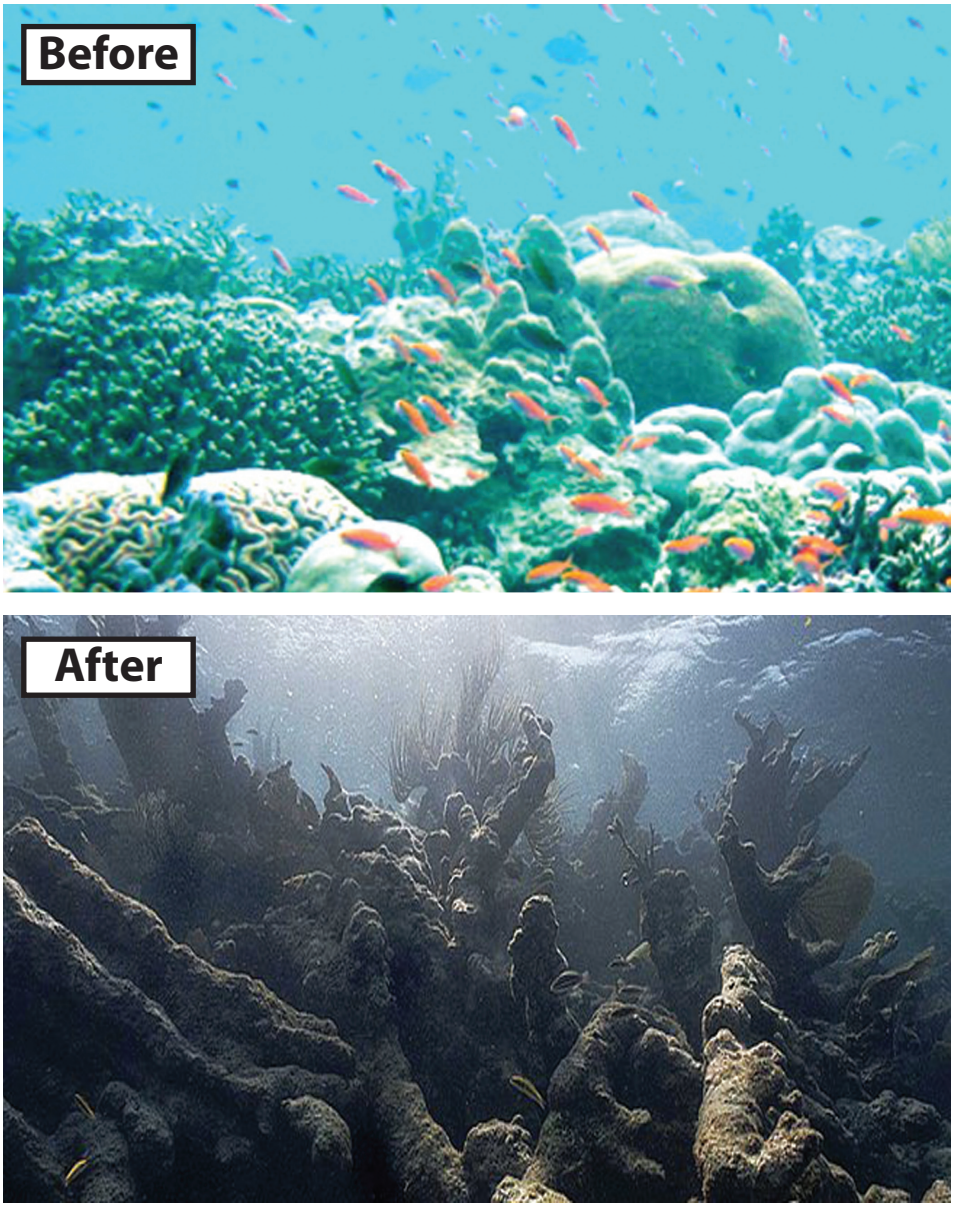


**Figure 7 – The impacts of pollution on a coral reef**

(a) Describe the changes caused by pollution on this coral reef.

**(2)**

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(b) Identify a global action taken to help maintain ocean health.

**(1)**

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*(c) For a named marine ecosystem, explain why people may disagree about its management.

**(6)**

Named marine ecosystem: .....

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**(Total for Question 7 = 9 marks)**

## Topic 8: Extreme Climates

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

**8** Study Figure 8.

**Figure 8 – Buildings adapted to cope with extreme climates**

(a) For **either** the hot arid **or** the polar climate, outline how the building has been designed to cope with the extreme climate.

**(2)**

Hot Arid or Polar: .....

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(b) Identify **one** global action taken to help protect extreme environments.

**(1)**

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*(c) For a named area with **either** a hot arid **or** a polar climate, explain how life is changing for its peoples.

**(6)**

Named area: .....

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**(Total for Question 8 = 9 marks)**

**TOTAL FOR SECTION C = 9 MARKS**
**TOTAL FOR PAPER = 50 MARKS**

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