

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Edexcel GCSE**

# Geography B

## Unit 1: Dynamic Planet

**Foundation Tier**

Thursday 20 January 2011 – Afternoon  
**Time: 1 hour**

Paper Reference

**5GB1F/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 Look at Figure 1a.

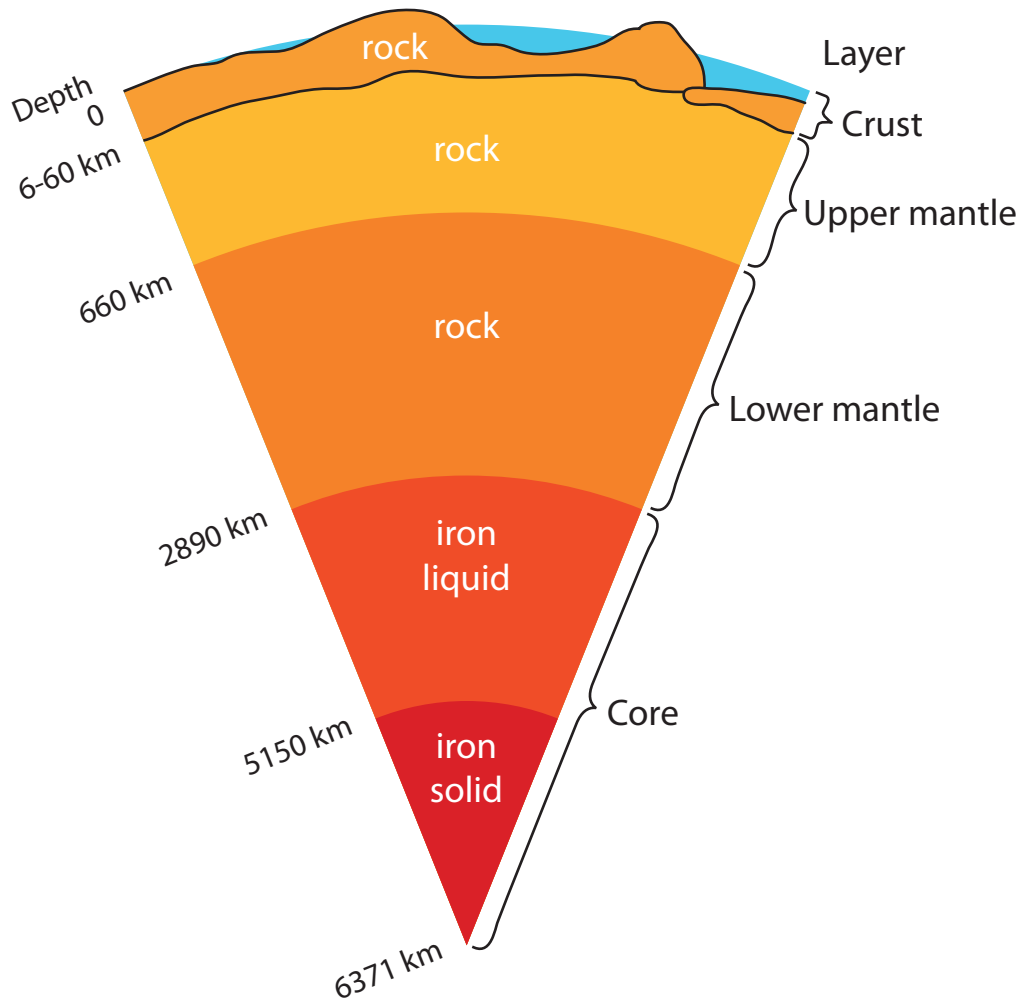


Figure 1a – A cross-section showing the structure of the Earth

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

(1)

- A crust
- B upper mantle
- C lower mantle
- D core



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

(1)

- A crust
- B upper mantle
- C lower mantle
- D core

(b) State **two** immediate responses in managing tectonic hazards (eg earthquake or volcanic eruption).

(2)

1 .....

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2 .....

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(c) Look at 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 **two** reasons why the number of deaths varies between earthquakes.

(4)

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2 .....

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



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**TURN OVER FOR QUESTION 2**



## Topic 2: Climate and Change

2 Look at Figure 2.



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

(a) State **two** impacts of colder periods, such as the Little Ice Age.

(2)

1 .....

2 .....



(b) Climate has changed in the past due to a number of natural processes.

Complete the sentences below using **two** of the following words.

(2)

**circular**

**wobbles**

**sunspot**

**volcanic**

Large ..... eruptions can create a blanket of ash and gas which blocks out sunlight.

Changes in the way the Earth orbits the sun can also affect climate.

Sometimes the Earth's orbit is ....., at other times it is more of an ellipse.

(c) Describe how **two** human activities can contribute to climate change.

(4)

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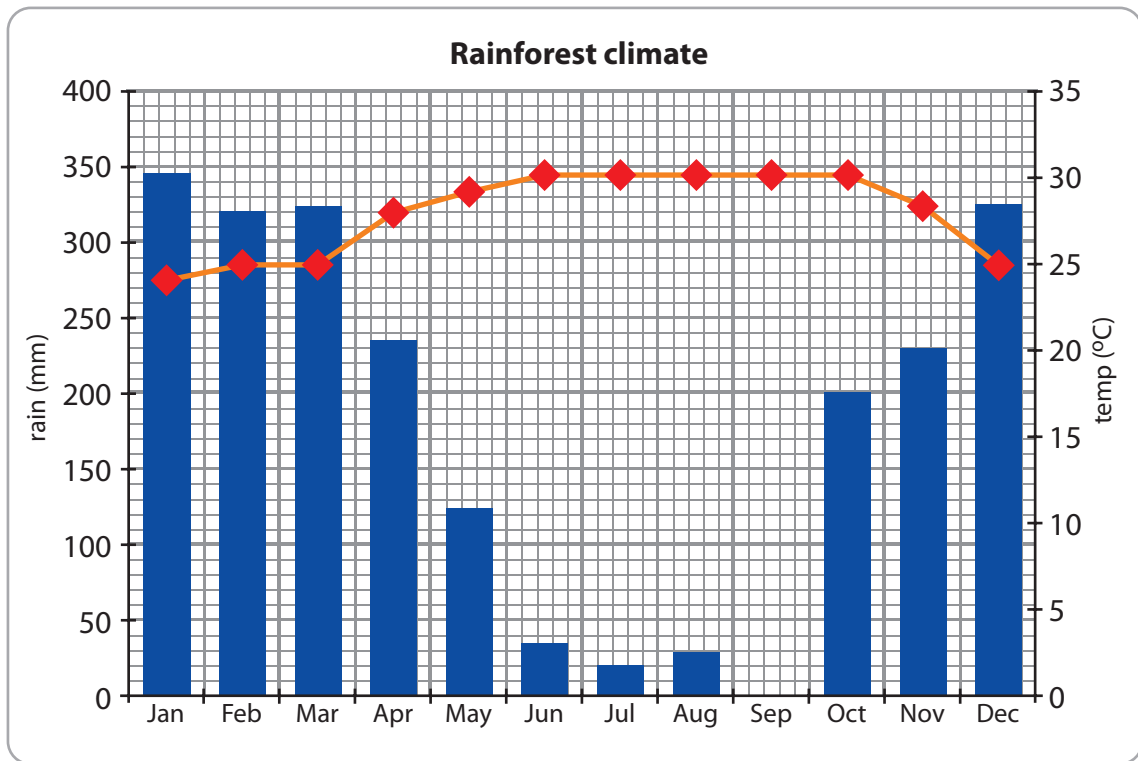
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**(Total for Question 2 = 8 marks)**



### Topic 3: Battle for the Biosphere

3 Look at Figure 3.



**Figure 3 – Tropical rainforest climate graph**

(a) (i) Complete the climate graph by adding a bar to show September's rainfall.

(1)

Rainfall data for tropical month	
September	100 mm





(ii) Using Figure 3, which **one** of the following four statements is true?

(1)

- A** 5°C is the lowest temperature recorded
- B** The temperature in May is 110
- C** July is the driest month
- D** Rainfall is heaviest in October

(b) Outline how **one** human activity has damaged the biosphere.

(2)

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(c) Describe **two** ways in which people are trying to conserve the biosphere.

(4)

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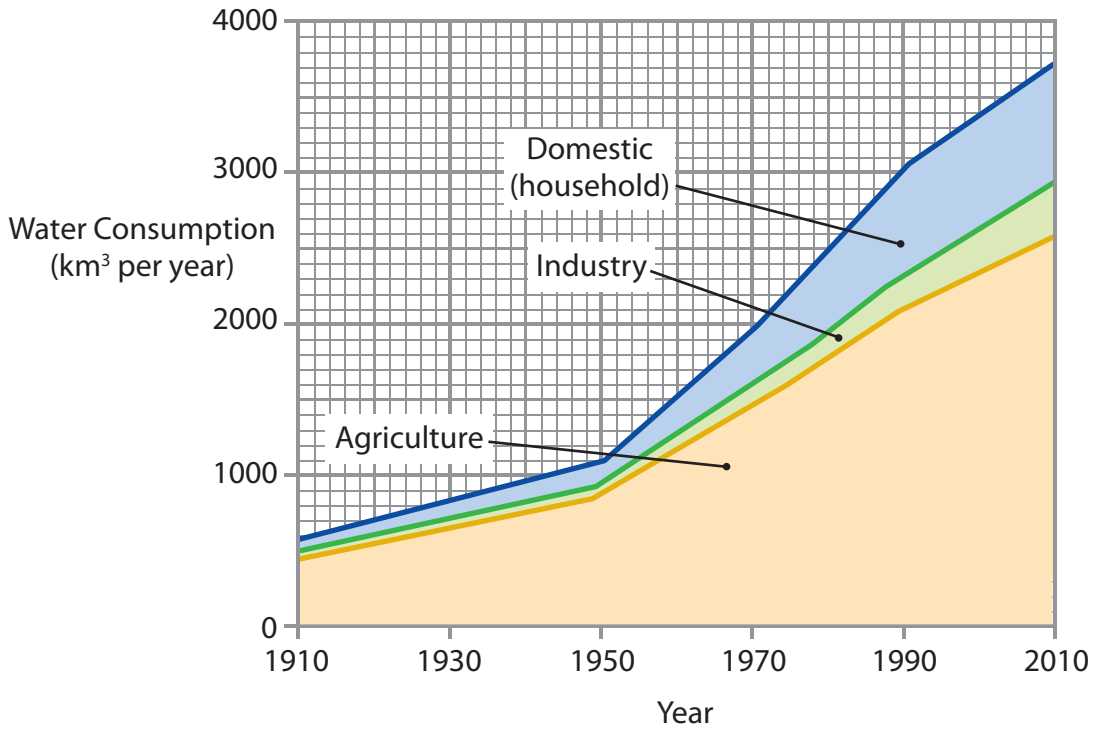
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(Total for Question 3 = 8 marks)



### Topic 4: Water World

4 Look at Figure 4.



**Figure 4 – Changing global water consumption, 1910 – 2010**

(a) (i) In 2010, what was the total amount of water consumed? (1)  
..... km<sup>3</sup> per year

(ii) Which user consumes the most water? (1)



(b) Outline **one** impact of unreliable water supply on people.

(2)

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(c) Describe how **two** human activities can result in a decline of water quality.

(4)

1 .....

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2 .....

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

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**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** Look at Figure 5.



**Figure 5 – Spurn Head**

(a) What type of landform is Spurn Head?

(1)



(b) Spurn Head has been created by longshore drift.

Outline the process of longshore drift.

You may use a diagram to help your answer.

(2)

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\*(c) For a named location, describe the problems caused by coastal retreat.

(6)

Named location .....

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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** Look at Figure 6.



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

(a) Name a landform shown in Figure 6.

(1)

(b) Outline **one** way rivers transport their load.

(2)



\* (c) For a named location, describe the actions taken to reduce flood risk.

(6)

Named location .....

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

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**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** Look at Figure 7.

Mangroves create ideal conditions for the spread of diseases.

Mangroves provide protection from storms.

Mangroves provide important habitats for fish.

Mangroves can make coastal transport difficult.



Mangroves reduce soil erosion.

Mangroves can provide wood for construction and energy.

**Figure 7 – Features of mangrove swamps**

(a) From Figure 7, identify **one** problem associated with mangrove swamps.

(1)

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(b) Describe **one** way climate change is affecting marine ecosystems.

(2)

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\*(c) For a named local-scale marine ecosystem, explain why it is under pressure.

(6)

Named local-scale marine ecosystem .....

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

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## Topic 8: Extreme Climates

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

8 Look at Figure 8.



Figure 8 – Tourism advertisement: Aboriginals (Australia)

(a) State **one** benefit tourism may bring to the people coping with an extreme climate.

(1)

(b) State **two** problems tourists may create for the people who live with an extreme climate.

(2)

1 .....

2 .....



\* (c) For a named region, describe how people cope with an extreme climate.

(6)

Named region .....

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

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

