

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Edexcel GCSE**

**Geography B**

**Unit 1: Dynamic Planet**

**Foundation Tier**

Monday 21 January 2013 – 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 53.
- 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.
- The marks available for spelling, punctuation and grammar are clearly indicated.

### 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 in this section.

Topic 1: Restless Earth

1 Look at Figure 1.

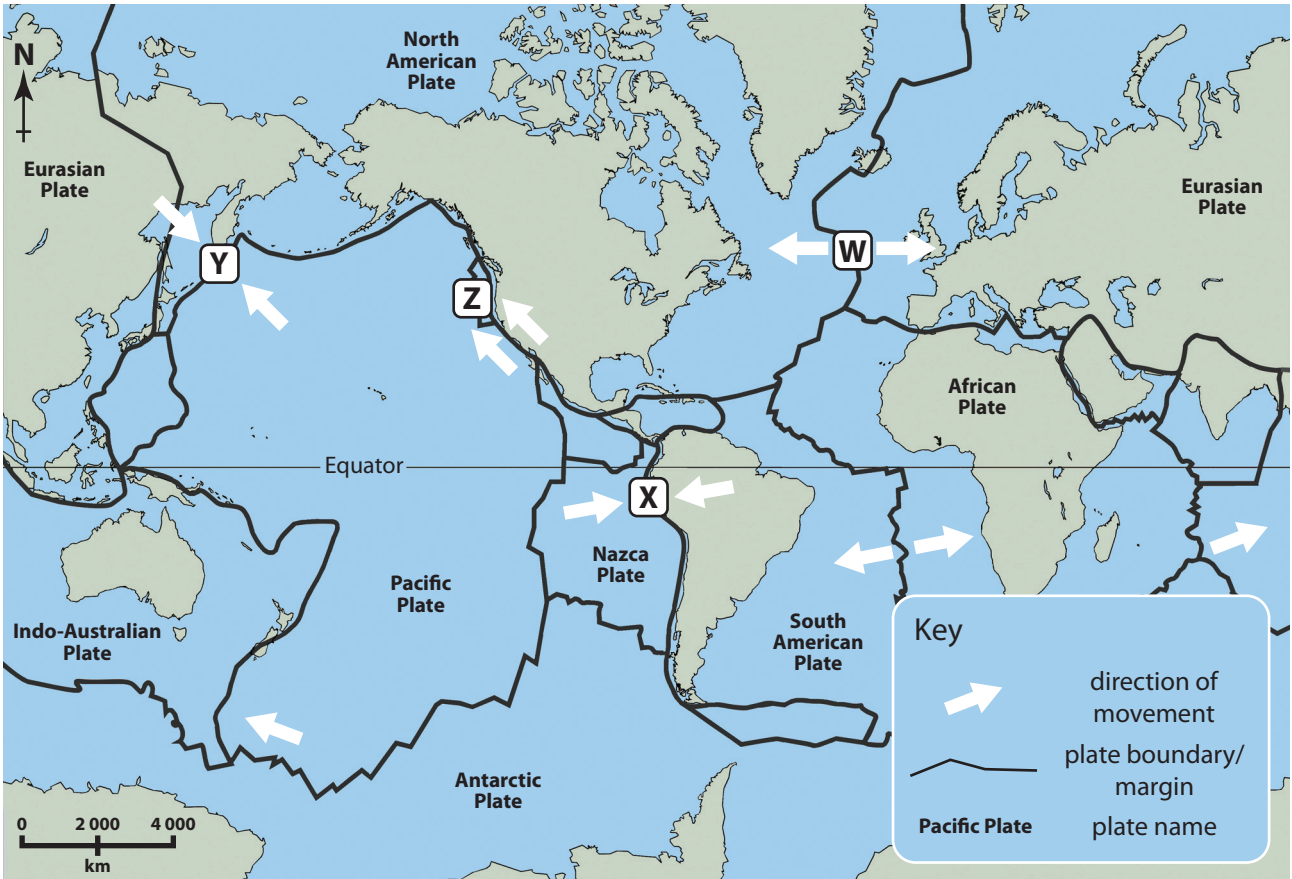


Figure 1 – A map of plate boundaries

(a) (i) Which **one** of the following is a **constructive** plate boundary on Figure 1?

(1)

- W
- X
- Y
- Z



(ii) On which type of plate boundary would you usually find gently sloping (shield) volcanoes? (1)

**A** Conservative

**B** Constructive

**C** Destructive

(b) Complete the sentences below using **two** of the following words. (2)

**electrical**      **magma**      **ocean**      **mantle**      **convection**

In between the crust and the core is a layer known as the .....

As the rock here heats and cools, ..... currents are created.

(c) Describe **two** actions that can be taken to reduce the impact of future earthquakes. (4)

1 .....

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2 .....

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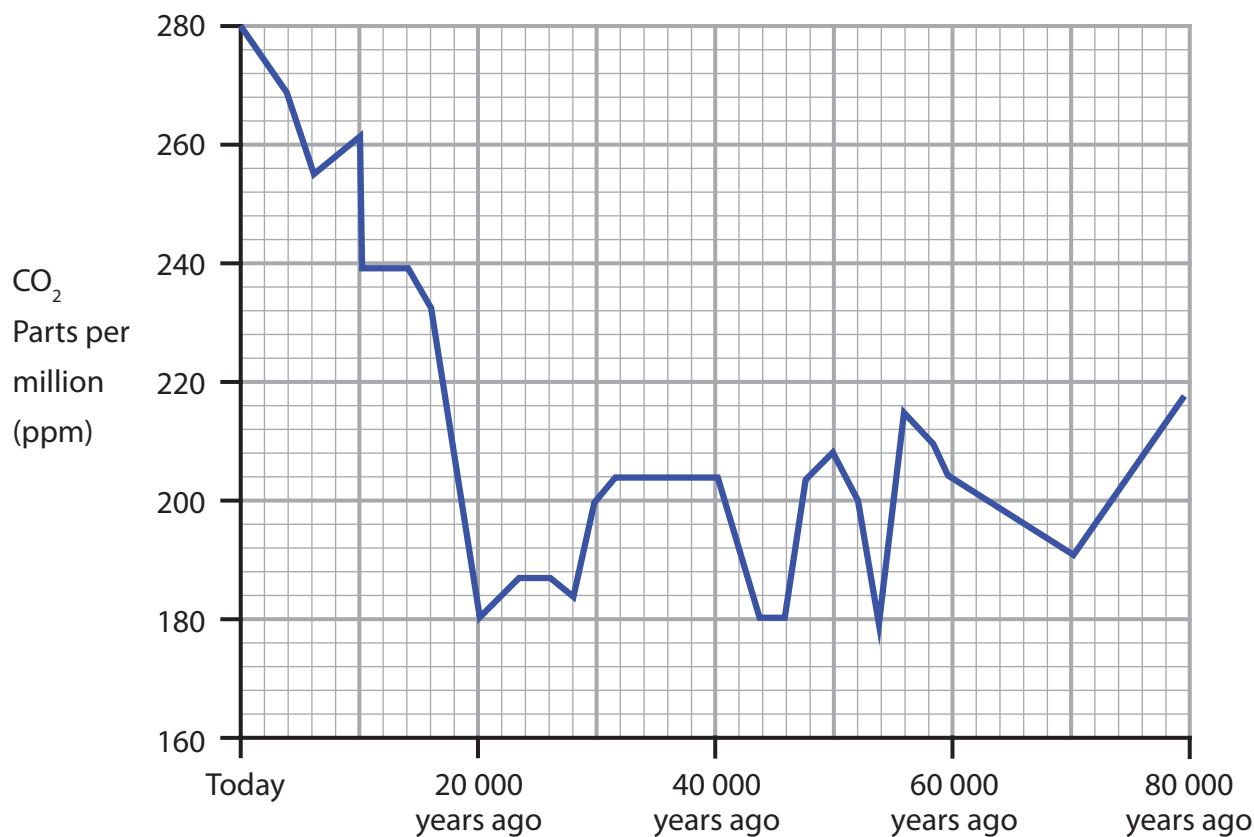
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**(Total for Question 1 = 8 marks)**



## Topic 2: Climate and Change

2 Look at Figure 2.



**Figure 2 – CO<sub>2</sub> (Carbon dioxide) change from the Vostok Ice Core**

(a) (i) What has happened to CO<sub>2</sub> levels over the last 20 000 years?

(1)

- A stayed the same
- B increased by 100 ppm
- C increased by 50 ppm
- D decreased by 100 ppm

(ii) Carbon dioxide is a greenhouse gas.

Which **one** of the following is also a greenhouse gas?

(1)

- A Helium
- B Nitrogen
- C Oxygen
- D Methane



(b) Outline **one** reason why the amount of CO<sub>2</sub> in the atmosphere has changed.

(2)

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(c) Describe **two** challenges the UK is likely to face as a result of climate change.

(4)

1 .....

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2 .....

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



### Topic 3: Battle for the Biosphere

3 Look at Figure 3.

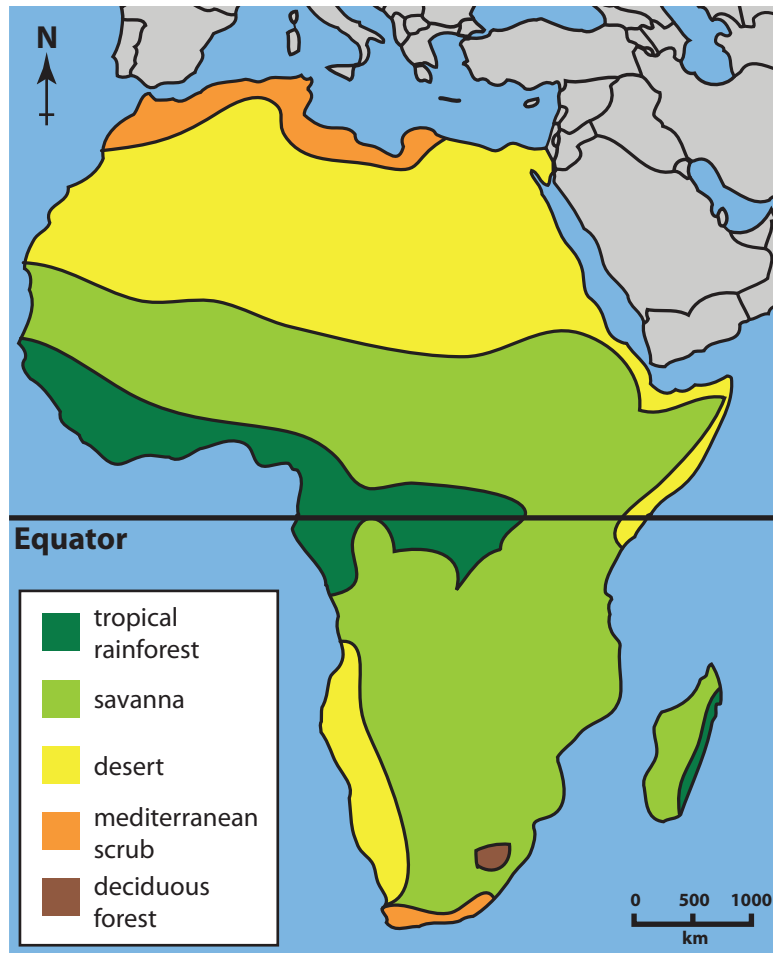


Figure 3 – A map of African biomes

(a) Complete the sentences below using **two** of the following biomes.

(2)

**desert**

**tropical rainforest**

**mediterranean scrub**

**deciduous forest**

**savanna**

The biome which covers the largest area in Africa is .....

North of the equator, the biome with the smallest area is .....



(b) Outline **one** reason why tropical rainforests are found on or close to the equator.

(2)

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(c) Describe **two** management measures used to conserve the biosphere.

(4)

1 .....

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2 .....

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



Topic 4: Water World

4 Look at Figure 4.

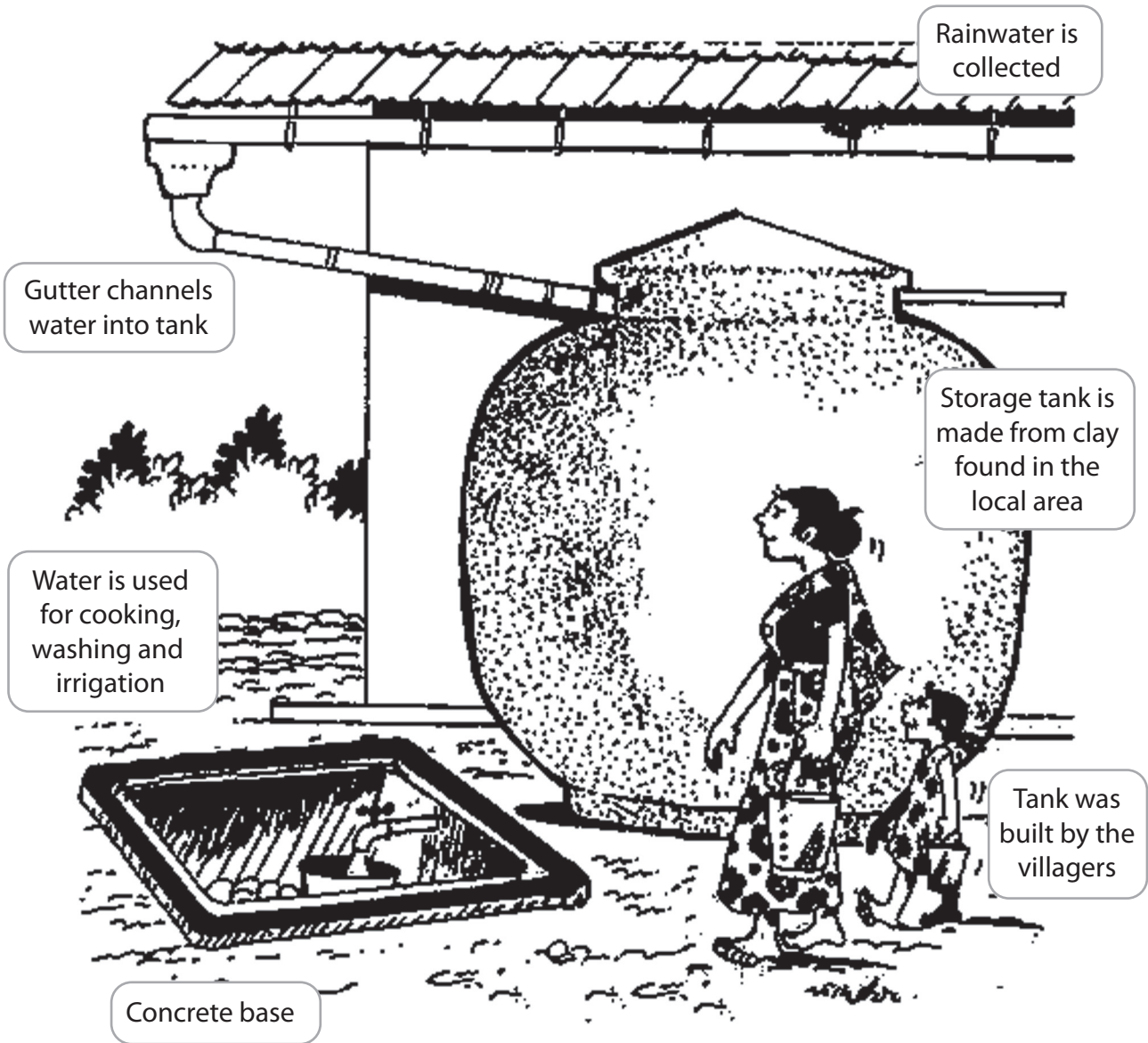


Figure 4 – A Pumpkin Water Tank, an example of intermediate technology

(a) Give **two** reasons why this is a suitable system for many villages in the developing world.

(2)

1 .....

2 .....





(b) Outline **one** reason why some villages in the developing world have experienced water shortages.

(2)

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(c) Describe **two** problems caused by a named large-scale water management project.

(4)

Named large-scale project .....

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 the box**

**5** Look at Figure 5.



**Figure 5 – An example of coastal management**

(a) (i) Name the coastal management technique shown in Figure 5. (1)

(ii) Give **two** reasons why the technique shown in Figure 5 is often used. (2)

1 .....

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2 .....

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\*(b) For a named coast (**either** hard **or** soft rock), describe its main features.

(6)

Named coast .....

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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 the box**

**6** Look at Figure 6.



**Figure 6 – A meandering river**

(a) Name landform **A** on Figure 6. (1)

(b) State **two** changes in a river's channel between its upper and lower course. (2)

1 .....

2 .....



\*(c) For a named location, describe how flood defences have been used to reduce the impact of river flooding.

(6)

Named location .....

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(Total for Question 6 = 9 marks)

**TOTAL FOR SECTION B = 9 MARKS**



**SECTION C – LARGE-SCALE DYNAMIC PLANET**

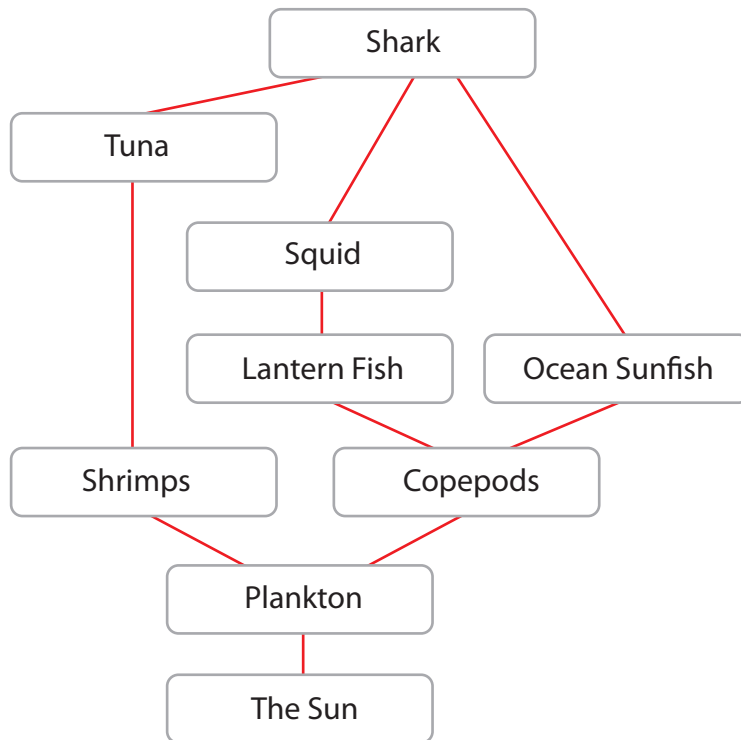
**Answer ONE question in this section.**

**Topic 7: Oceans on the Edge**

**If you answer Question 7 put a cross in the box**

**Spelling, punctuation and grammar will be assessed in \*(b).**

**7** Look at Figure 7.



**Figure 7 – A marine food web**

(a) (i) What does a food web show?

(1)



(ii) State **two** impacts of a reduction in the population of Ocean Sunfish.

(2)

1 .....

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2 .....

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\*(b) For a named location, describe the management measures that have been taken to prevent marine ecosystem damage.

(6)

Named location .....

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**(Total for spelling, punctuation and grammar = 3 marks)**

**(Total for Question 7 = 12 marks)**



## Topic 8: Extreme Climates

If you answer Question 8 put a cross in the box

Spelling, punctuation and grammar will be assessed in \*(b).

8 Look at Figure 8.



Figure 8 – Farming in extreme climates

(a) (i) Give **one** way farming has adapted to the extreme climate.

(1)

Put a cross in the box to indicate your chosen extreme climate:

polar  hot arid

(ii) State **two** problems the extreme climate can cause for farmers.

(2)

Put a cross in the box to indicate your chosen extreme climate:

polar  hot arid

1 .....

2 .....





\*(b) Describe how climate change could threaten the people of a named extreme environment.

(6)

Named extreme environment .....

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**(Total for spelling, punctuation and grammar = 3 marks)**  
**(Total for Question 8 = 12 marks)**

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**TOTAL FOR SECTION C = 12 MARKS**  
**TOTAL FOR PAPER = 53 MARKS**



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