Write your name here

Surname	Other names

Edexcel GCSE

Centre Number	Candidate Number

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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P 4 1 3 5 0 A 0 1 2 0

PEARSON

SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions in this section.

Topic 1: Restless Earth

1 Look at Figure 1.

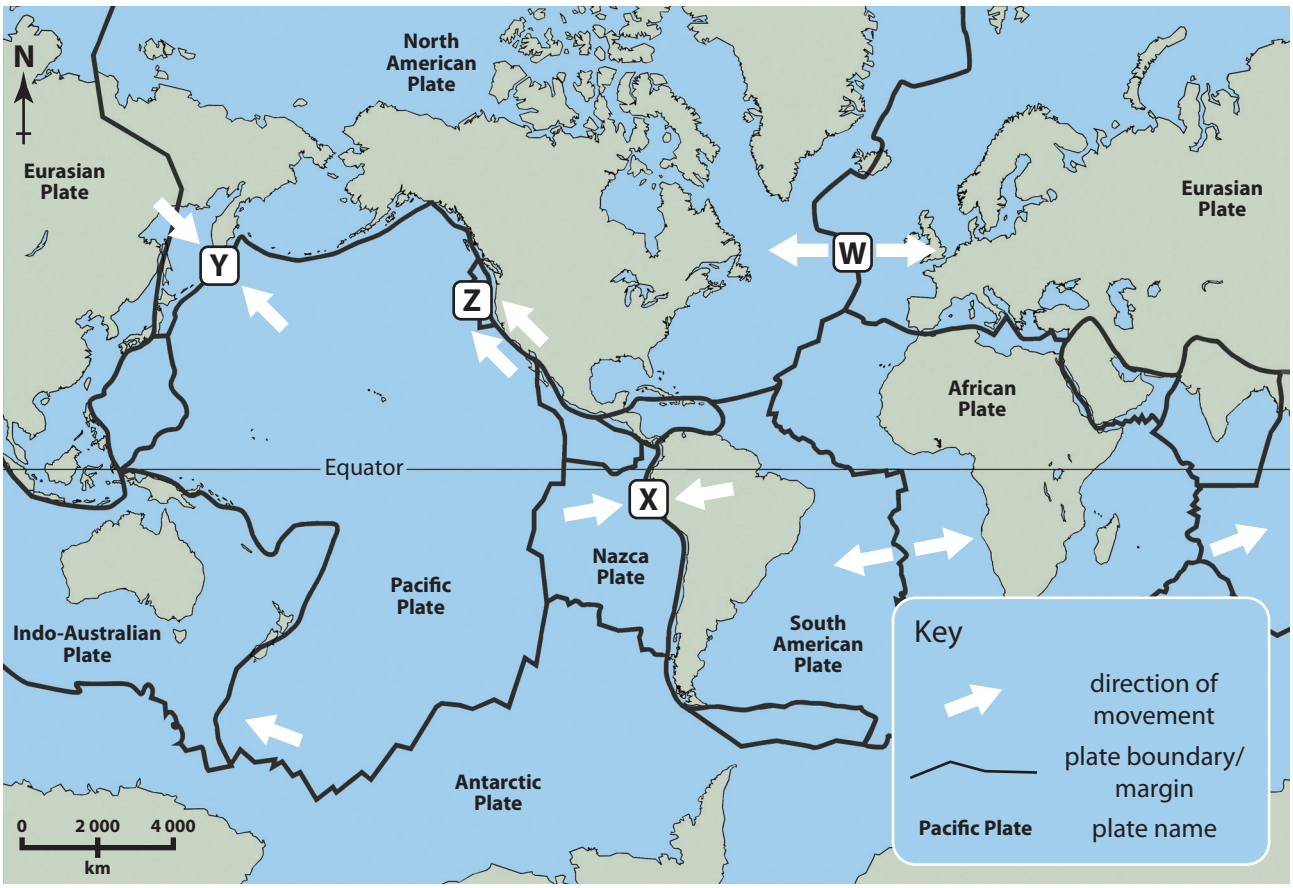

Figure 1 – A map of plate boundaries

(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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.....

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2 .....

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.....

(Total for Question 1 = 8 marks)

2 Look at Figure 2.

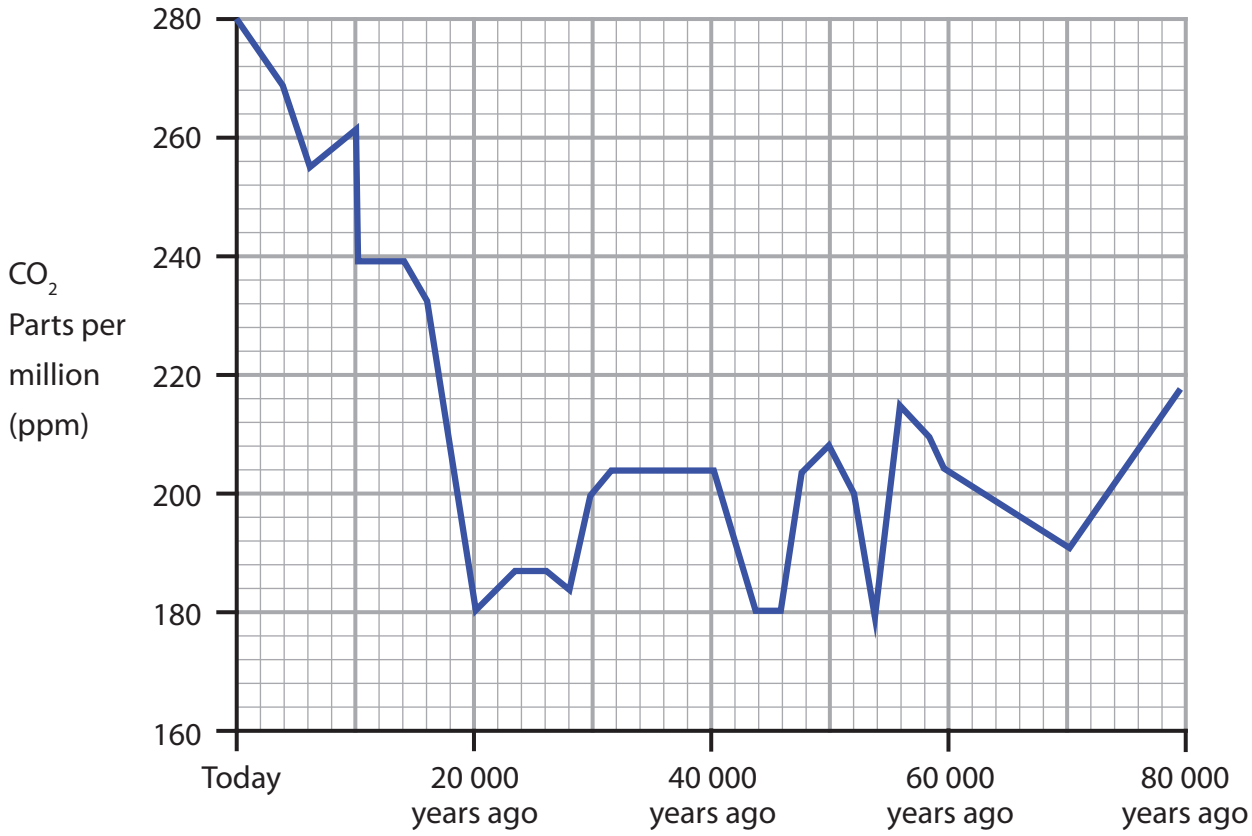

Figure 2 – CO_2 (Carbon dioxide) change from the Vostok Ice Core

(a) (i) What has happened to CO_2 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_2 in the atmosphere has changed.

(2)

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

(4)

1

2

(Total for Question 2 = 8 marks)

3 Look at Figure 3.

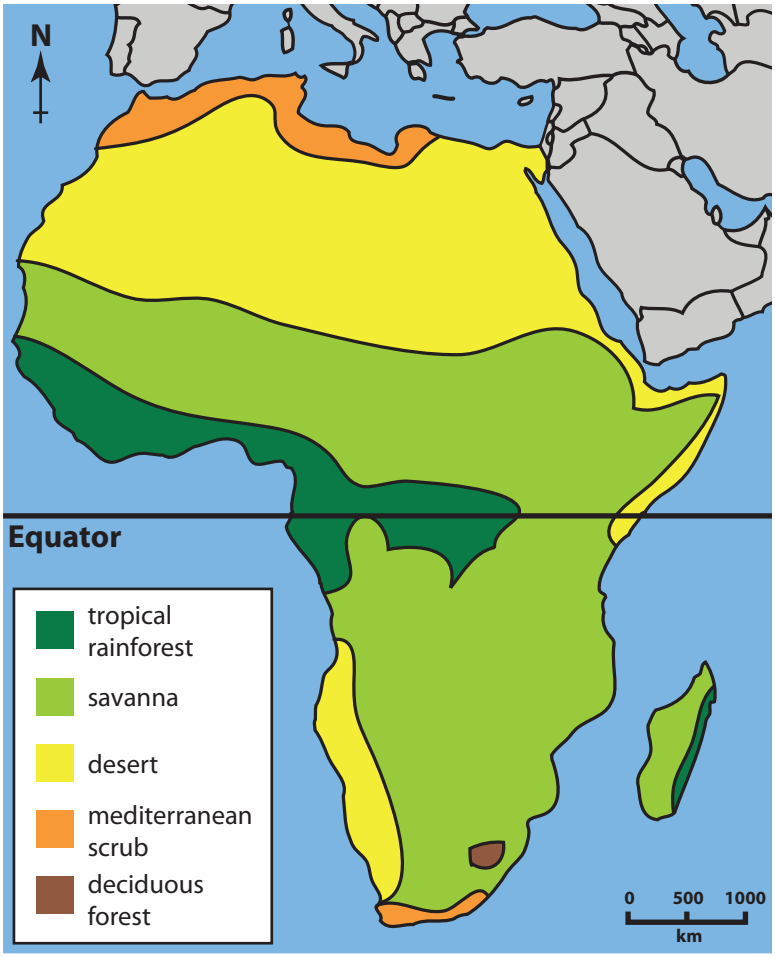

Figure 3 – A map of African biomes

(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)

4 Look at Figure 4.

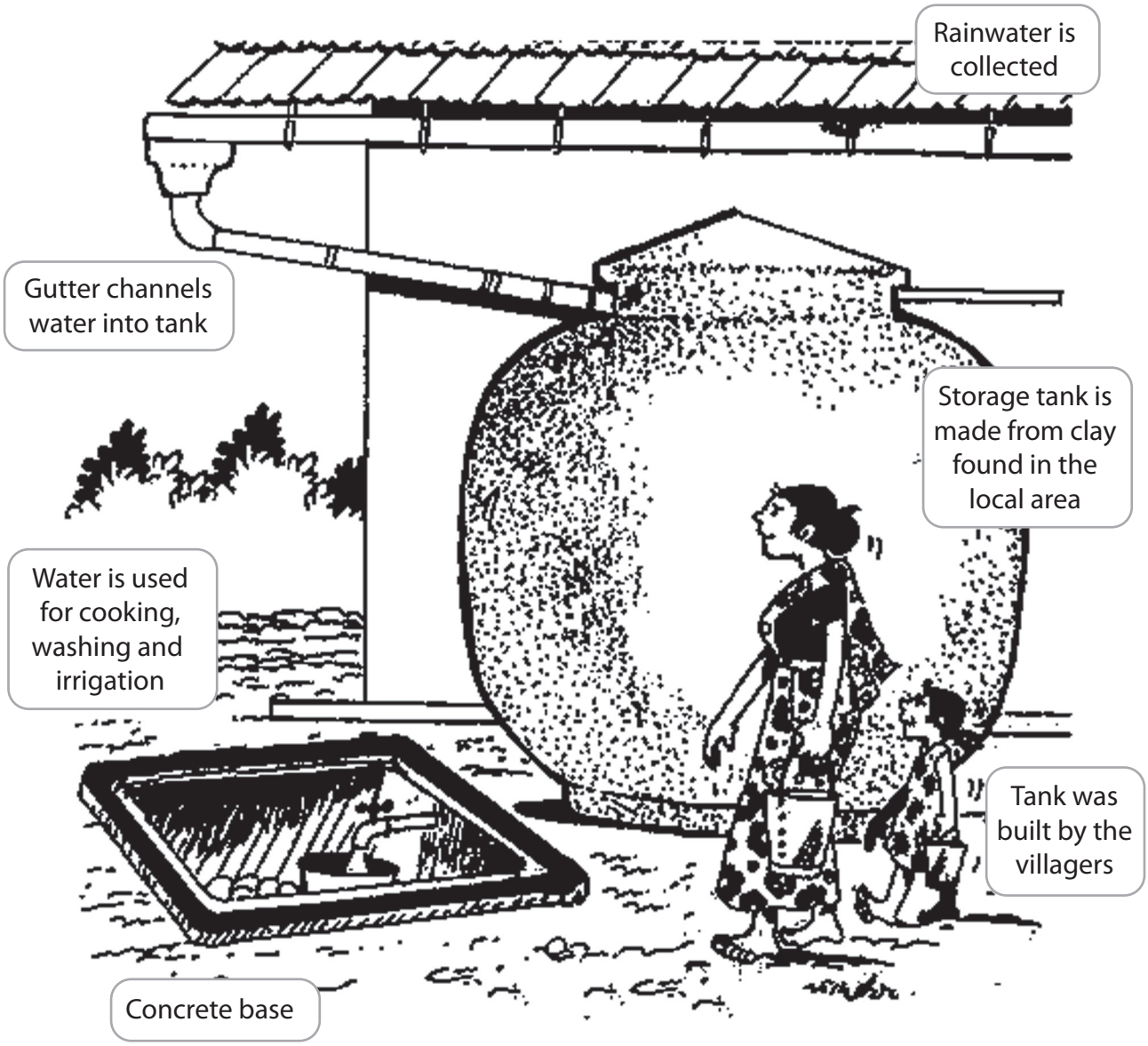

Figure 4 – A Pumpkin Water Tank, an example of intermediate technology

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

(2)

1 .....

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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 .....

.....

.....

.....

2 .....

.....

.....

.....

(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 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 .....

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2 .....

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*(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.

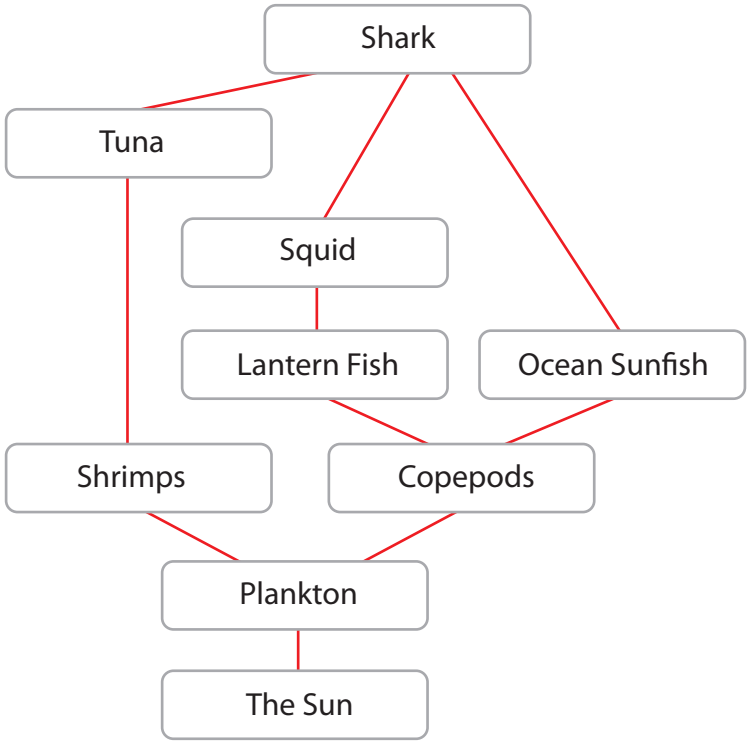

Figure 7 – A marine food web

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

(1)

.....

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

(2)

1 .....

.....

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)

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

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