

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography B

Unit 1: Dynamic Planet

Higher Tier

Monday 21 January 2013 – 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** 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 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 Study Figure 1.

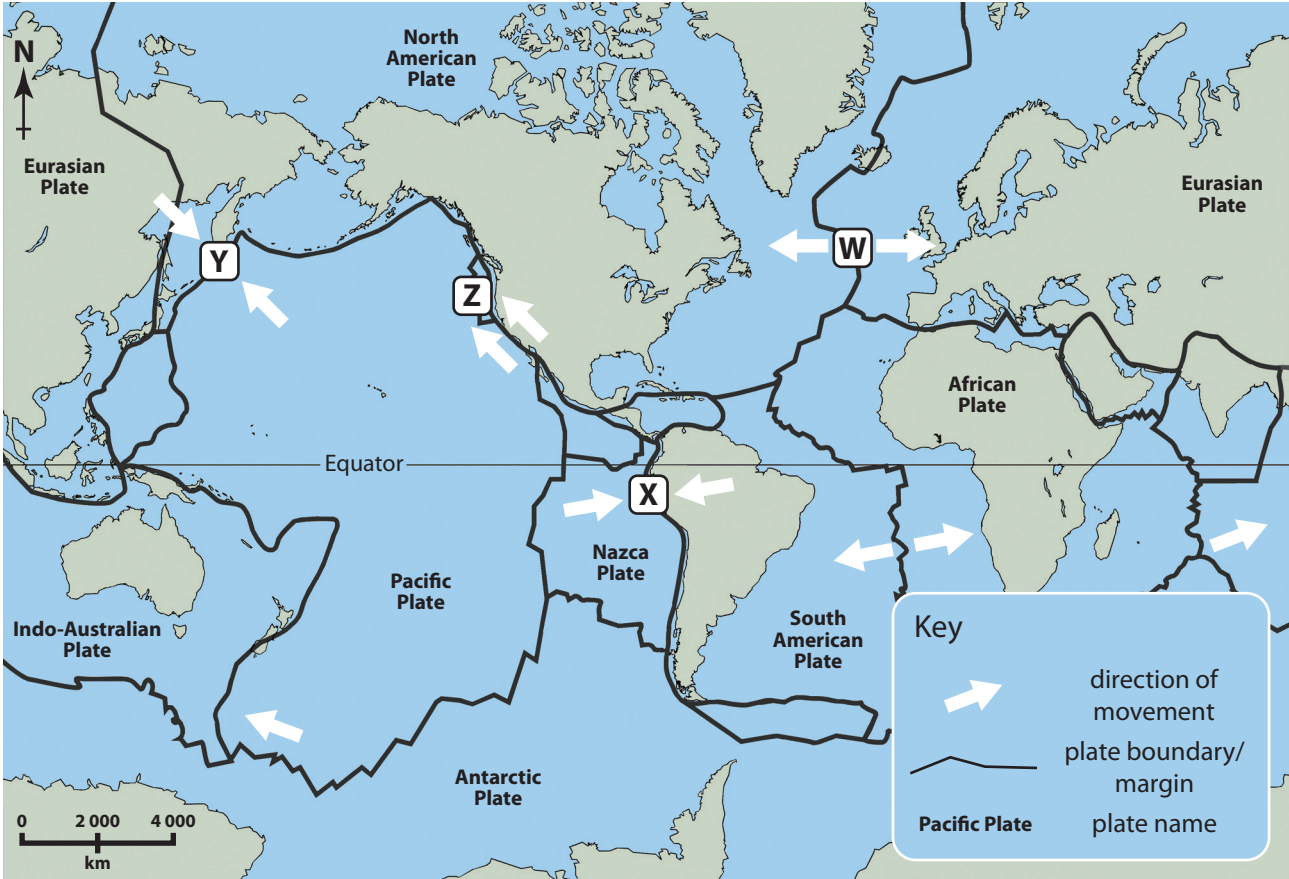


Figure 1 – A map of plate boundaries

(a) (i) Name the type of plate boundary shown at **W** on Figure 1.

(1)

(ii) Name **one** landform often found on destructive plate boundaries.

(1)



(b) Describe **one** action that can be taken to reduce the impact of future earthquakes.

(2)

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(c) Explain why some earthquakes are more hazardous than others.

(4)

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(Total for Question 1 = 8 marks)



Topic 2: Climate and Change

2 Study Figure 2.

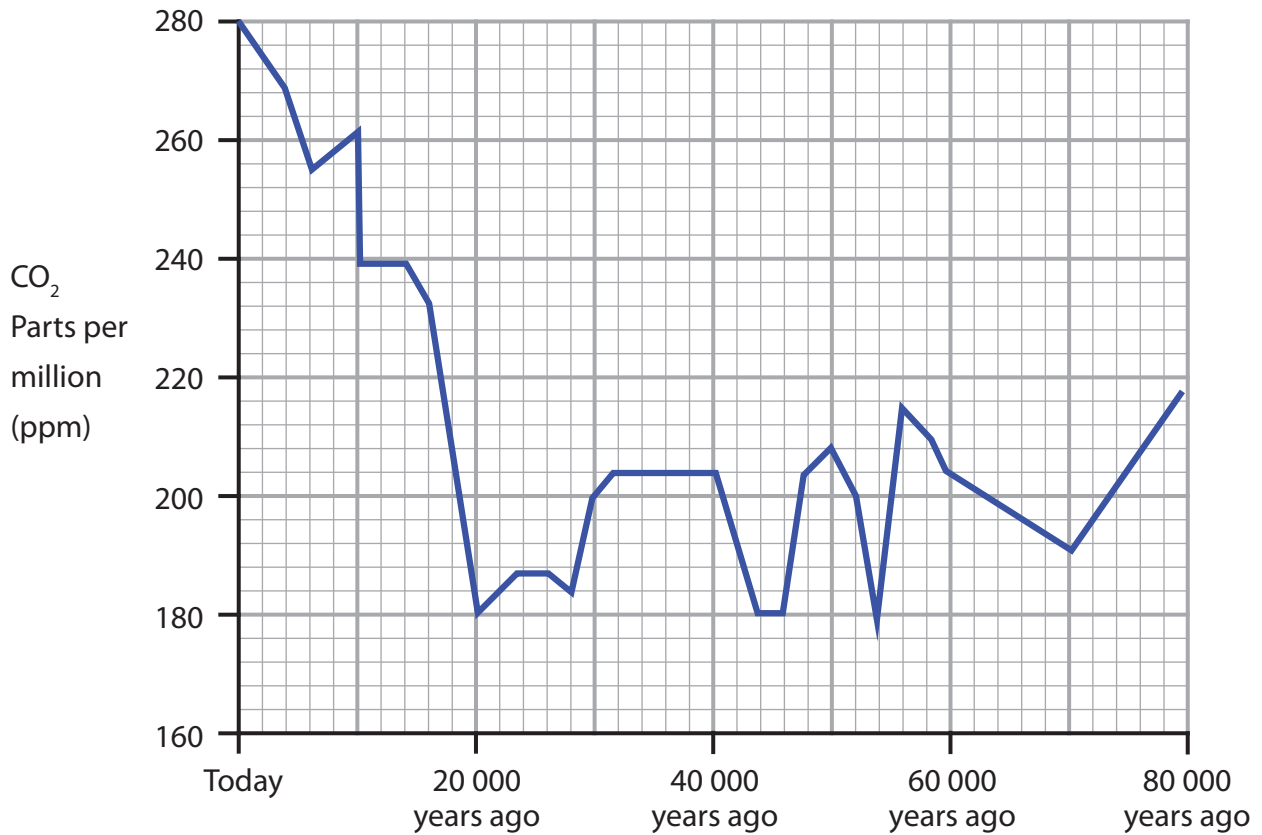


Figure 2 – CO₂ (Carbon dioxide) change from the Vostok Ice Core

(a) Describe the changes in CO₂ parts per million (ppm) shown.

(3)

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(b) Describe **one** challenge the UK is likely to face as a result of climate change.

(2)

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(c) Using an example of **past** climate change, describe its impacts.

(3)

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(Total for Question 2 = 8 marks)



Topic 3: Battle for the Biosphere

3 Study Figure 3.

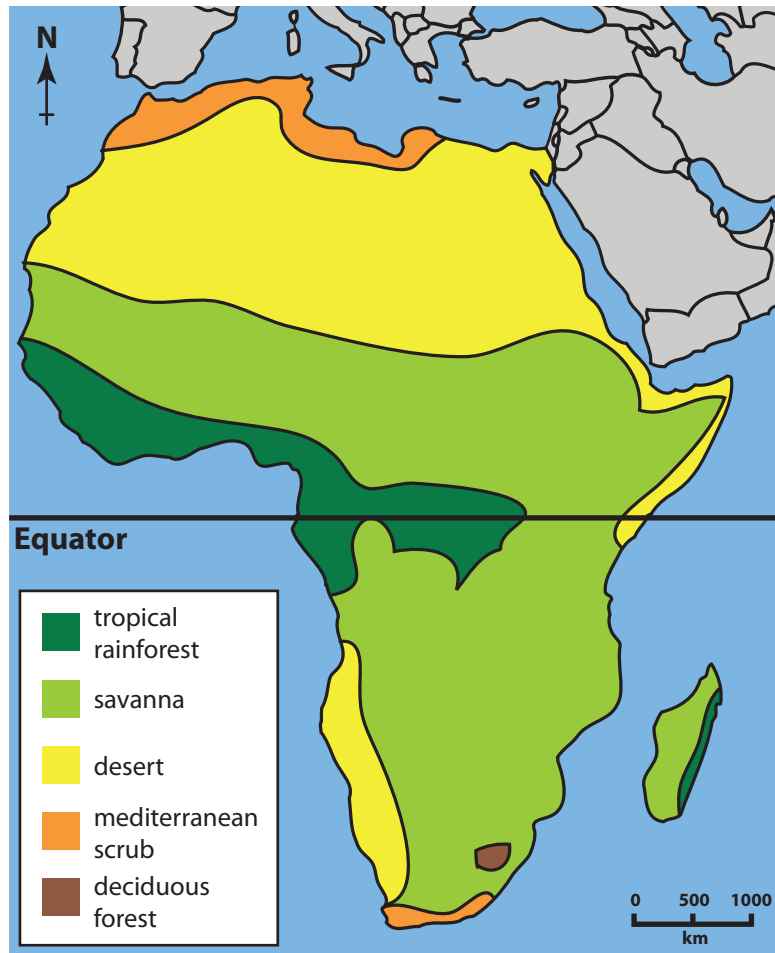


Figure 3 – A map of African biomes

(a) Describe the distribution of tropical rainforest in Africa.

(2)

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(b) Describe **one** management measure used to conserve the biosphere.

(2)

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(c) The atmosphere is a mixture of different gases.

Describe how the biosphere affects this mixture of gases.

(4)

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(Total for Question 3 = 8 marks)



Topic 4: Water World

4 Study Figure 4.

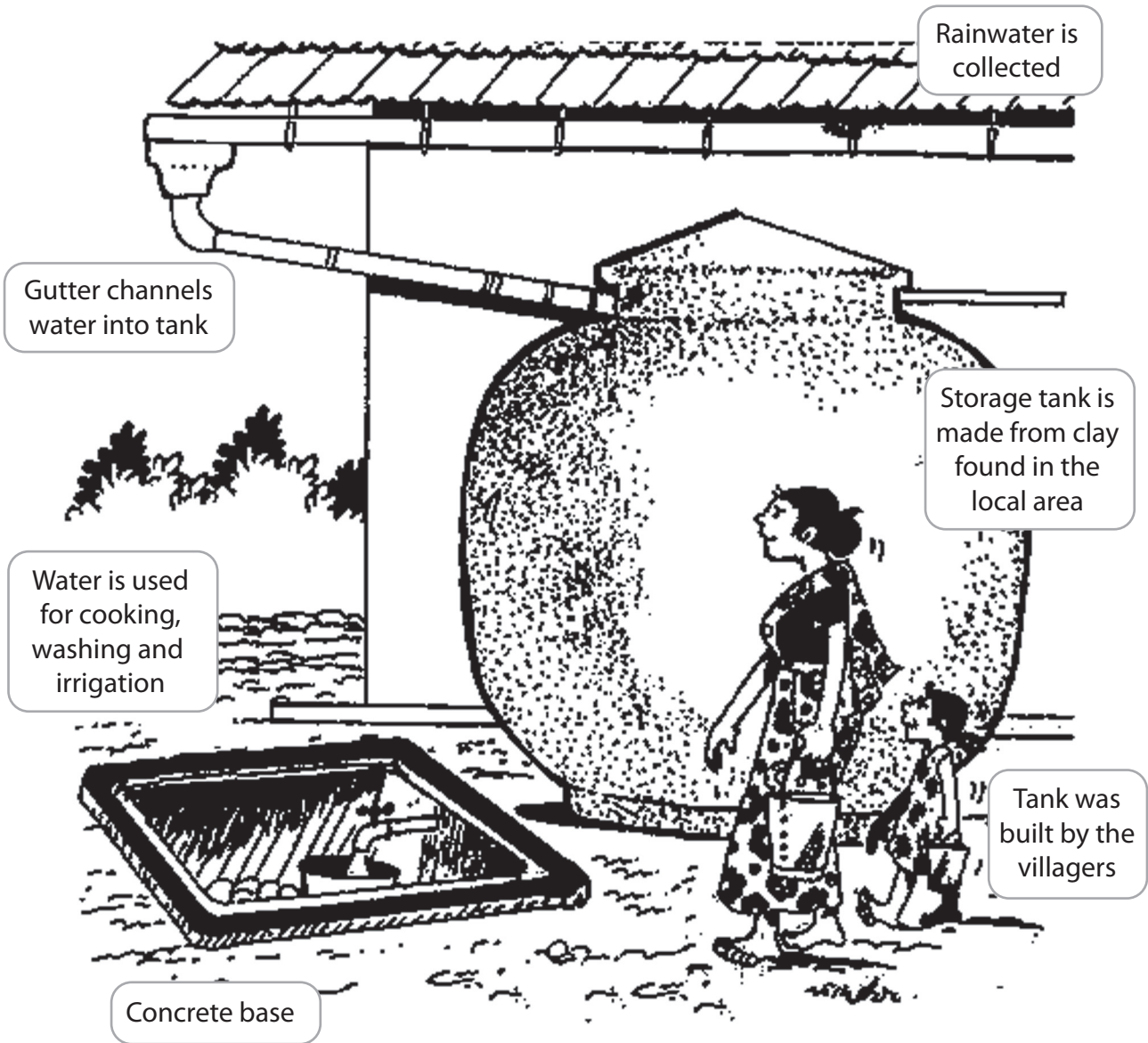


Figure 4 – A Pumpkin Water Tank, an example of intermediate technology

(a) Why are small-scale projects, such as this one, usually considered to be sustainable?

(2)

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(b) Describe **one** problem caused by a named large-scale water management project. (2)

Named large-scale project

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(c) Many areas of the world are experiencing increased aridity. Explain why this is happening. (4)

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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 the box

5 Study Figure 5.



Figure 5 – Groynes, an example of coastal management

(a) Describe how groynes affect longshore drift.

You may use a diagram to help your answer.

(3)

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*(b) Describe the **differences** between the features of hard and soft rock coastlines.

(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 the box

6 Study Figure 6.



Figure 6 – A meandering river

(a) Explain the formation of a floodplain.

You may use a diagram to help your answer.

(3)

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*(b) For a named location, describe the costs and benefits of using **hard** engineering to manage river flood risk.

(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 Study Figure 7.

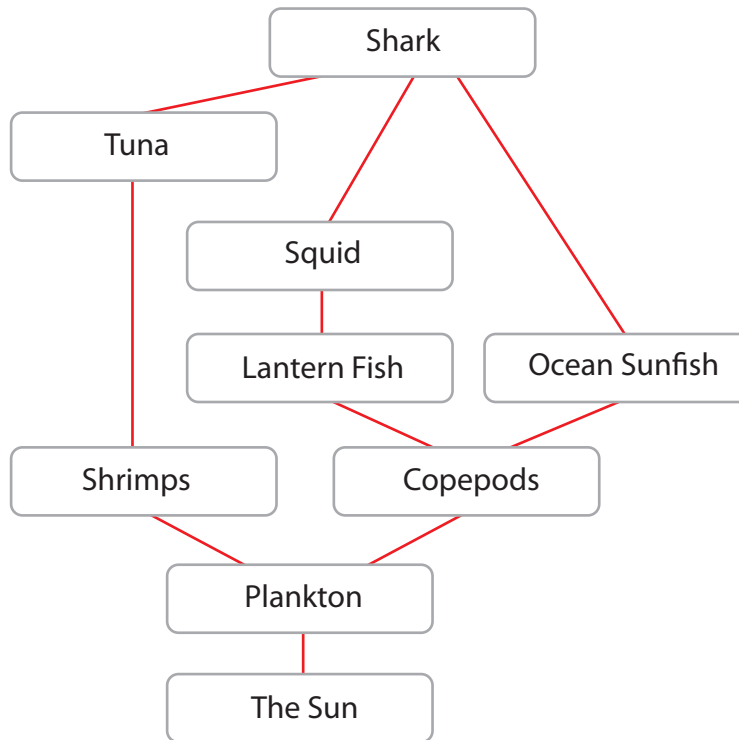


Figure 7 – A marine food web

(a) Explain why plankton is so important to the marine food web shown in Figure 7.

(3)

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* (b) Explain the importance of **global actions** in improving the health of oceans.

(6)

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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 Study Figure 8.



Figure 8 – Farming in extreme climates

(a) Explain how farming has adapted to reflect the extreme climate.

(3)

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

polar

hot arid

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* (b) Explain the importance of **global actions** in protecting extreme environments from the threat of climate change.

(6)

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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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