

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography B

Unit 1: Dynamic Planet

Higher Tier

Friday 20 January 2012 – 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** 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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6/8/7/5/3/1



P 3 9 9 2 8 R A 0 1 2 0

PEARSON

SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions.

Topic 1: Restless Earth

1 Study Figure 1.

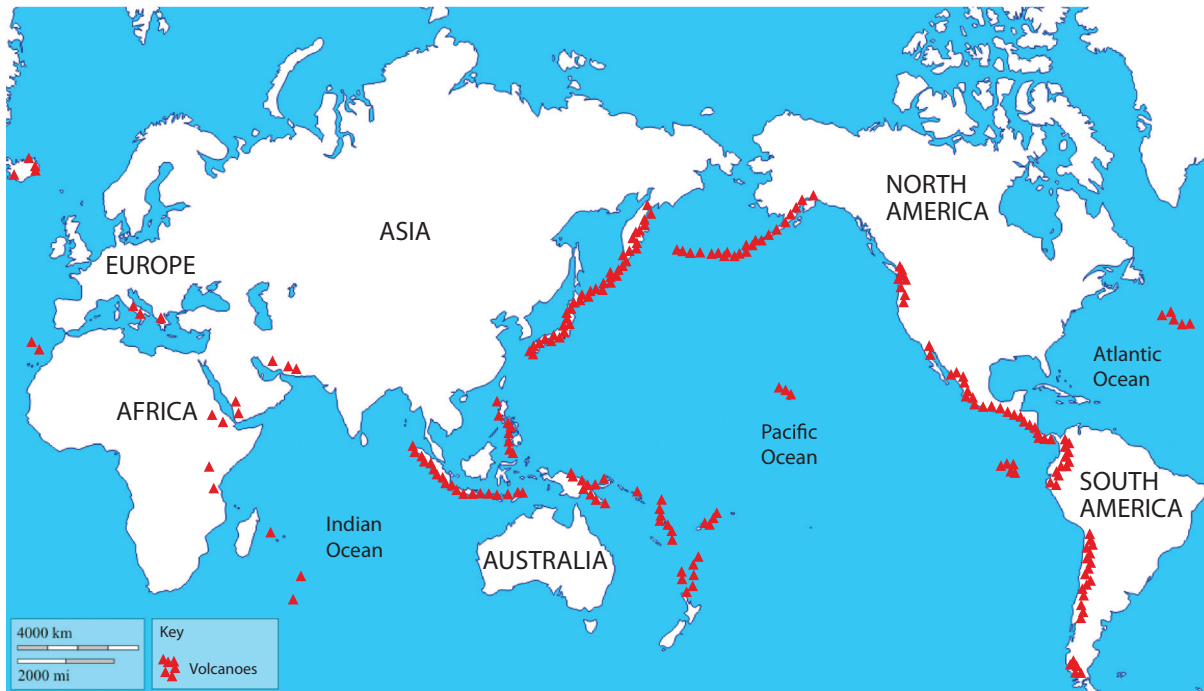


Figure 1 – The distribution of volcanoes

(a) State **two** facts about the distribution of volcanoes.

(2)

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

(2)

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(c) For a named earthquake **or** volcanic eruption, describe its economic impacts.

(4)

Named earthquake or volcanic eruption

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(Total for Question 1 = 8 marks)



Topic 2: Climate and Change

2 Study Figure 2.

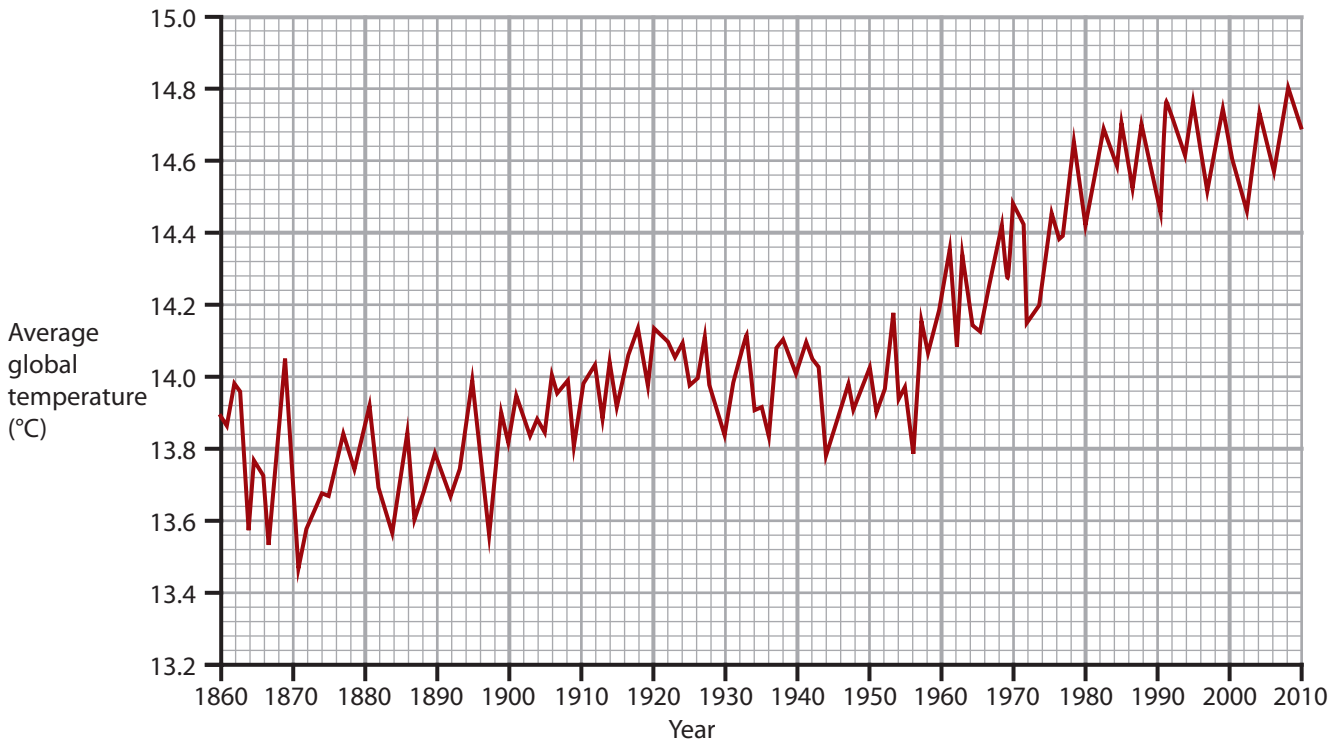


Figure 2 – Average Global Temperature, 1860 to 2010

(a) Describe the changes in average global temperature between 1860 and 2010.

(2)

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(b) Describe **one** possible economic impact of future climate change in the UK.

(2)

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(c) Explain how an increase in greenhouse gases can result in climate change.

(4)

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(Total for Question 2 = 8 marks)



P 3 9 9 2 8 R A 0 5 2 0

Topic 3: Battle for the Biosphere

3 Study Figure 3.

RAINFOREST'S SUSTAINABLE FUTURE

The future of the Amazon rainforest could be helped thanks to woody-vines similar to ivy, known as lianas. When dried, they are tough but easy to twist, making them perfect to use for the production of baskets and furniture.

Using simple techniques, lianas can be harvested by local people without damaging the environment. There is no need to clear the forest and the tough vines have a resistance to local pests, reducing the need for pesticides.

Figure 3 – A newspaper article on the future of the Amazon rainforest

(a) Outline **one** reason why an industry using lianas is sustainable.

(2)

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(b) The biosphere acts as a **life support system** for the planet.

Describe **one** way in which it does this.

(2)

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(c) Describe how **local** factors can affect biomes.

(4)

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(Total for Question 3 = 8 marks)



Topic 4: Water World

4 Study Figure 4.

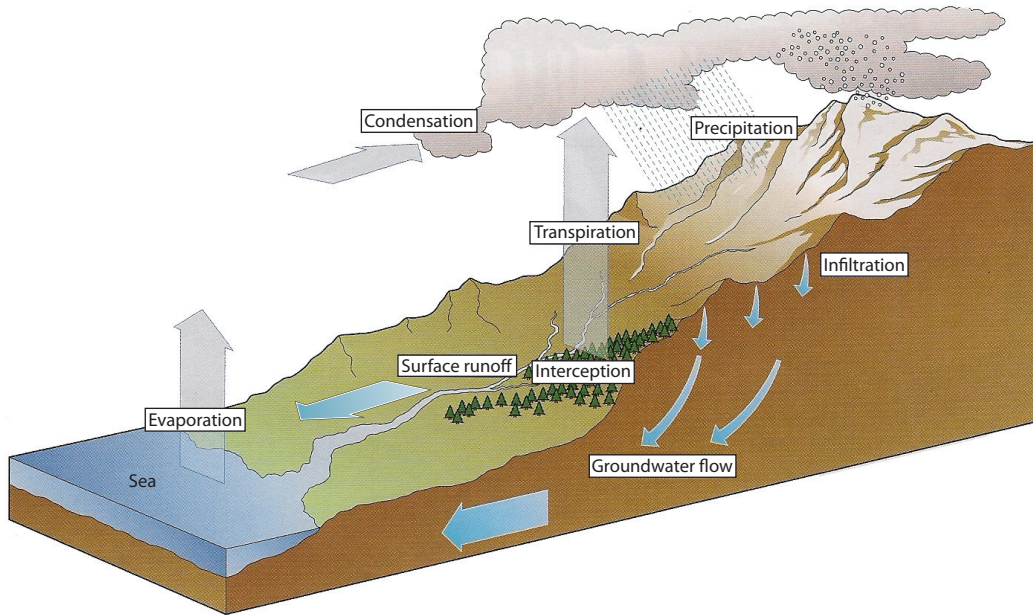


Figure 4 – The Hydrological Cycle

(a) Outline the process of precipitation.

(2)

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(b) For a named vulnerable area, describe **one** problem caused by an **unreliable** or **insufficient** water supply.

(2)

Named vulnerable area

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(c) Using examples, describe how human interference can disrupt water supply.

(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 this box .

5 Study Figure 5.



Figure 5 – Cliff collapse on the east coast of England

(a) Describe how cliffs such as this have collapsed.

(3)

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Topic 6: River Processes and Pressures

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

6 Study Figure 6.



Figure 6 – Valley in the upper course of a river

(a) Describe how rivers such as this erode their bed.

(3)

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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.

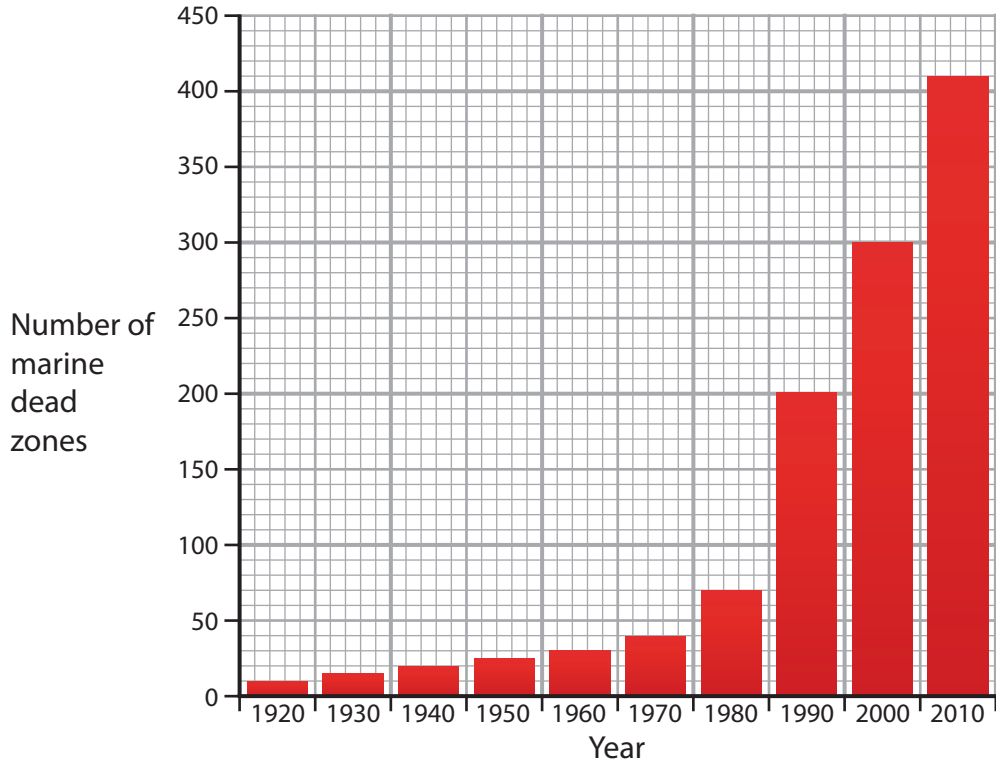


Figure 7 – A graph showing the number of degraded marine zones with little life (dead zones)

(a) Suggest reasons for the changes in the number of marine dead zones.

(3)

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Topic 8: Extreme Climates

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

8 Study Figure 8.



(Source: © Kalle Pahajoki/Alamy)

Figure 8 – Plants that live in extreme climates

(a) For **either** A **or** B, describe how the vegetation has adapted to its extreme climate.

(3)

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*(b) Describe how the culture and values (way of life) of people living in extreme climates can be considered unique.

(6)

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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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