

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography A

Unit 2: The Natural Environment

Higher Tier

Friday 17 June 2011 – Morning

Time: 1 hour

Paper Reference

5GA2H/01

You must have:

Resource Booklet (enclosed)

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 only **one** question from questions 1, 2, 3 **or** 4.
- In Section **B** answer **either** question 5 **or** 6.
- 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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5/5/6/3



P 3 8 8 6 3 A 0 1 3 2

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SECTION A – THE PHYSICAL WORLD

Answer only ONE question from Section A.

Indicate which question you are answering by marking a cross . If you change your mind, put a line through the box and then indicate your new question with a cross .

Topic 1: Coastal Landscapes

If you answer Question 1 put a cross in this box .

1 (a) Study Figure 1a.

It shows the wave fetches from Sefton near Liverpool.

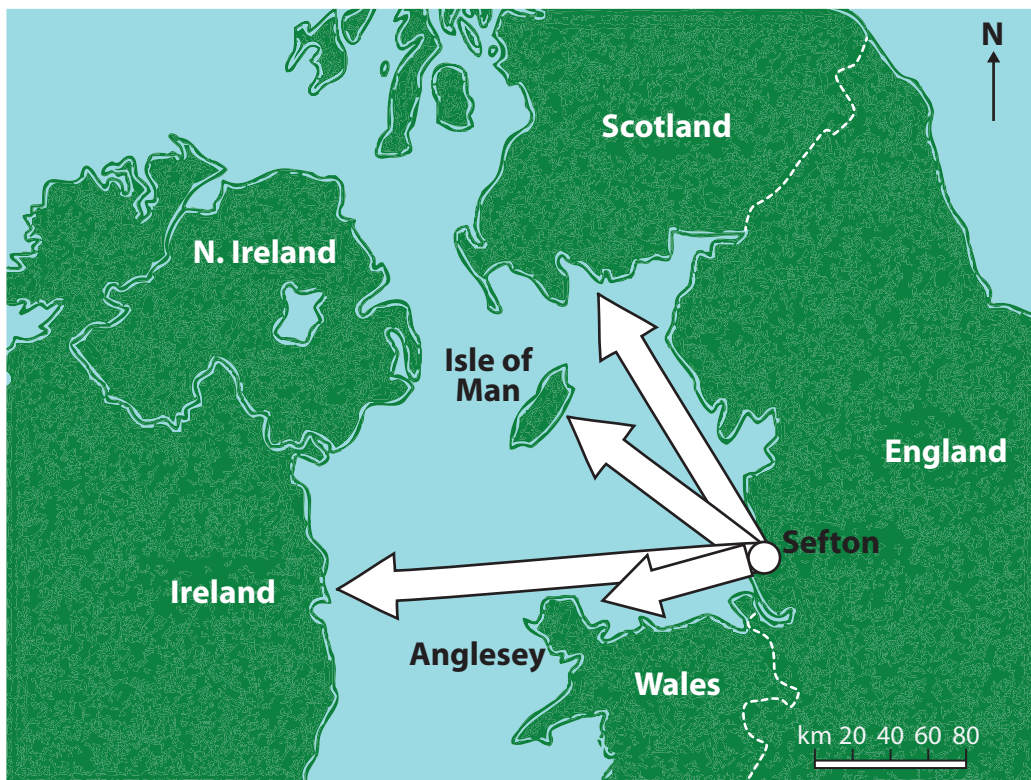


Figure 1a

(i) Which place has the longest wave fetch from Sefton? (1)

(ii) What is the distance of wave fetch from Sefton to Anglesey? (1)

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(iii) Suggest how wave fetch can cause different rates of coastal recession.

Use evidence from Figure 1a in your answer.

(3)

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(iv) Compare the characteristics of constructive and destructive waves.

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(b) (i) Outline the process of slumping.

(2)

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(ii) State **one** impact of slumping on the coast.

(1)

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(iii) Explain the formation of a spit.

Use a diagram(s) in your answer.

(4)

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(c) Study Figure 1b (photograph) in the Resource Booklet.

It shows an example of hard engineering.

(i) Describe the advantages of the hard engineering shown in Figure 1b.

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(ii) Explain how the effects of coastal flooding are reduced.

Use examples in your answer.

(6)

A series of horizontal dotted lines for writing the answer.

(Total for Question 1 = 25 marks)



Topic 2: River Landscapes

If you answer Question 2 put a cross in this box .

2 (a) Study Figure 2a.

It shows how a waterfall changed between 1900 and 2000.

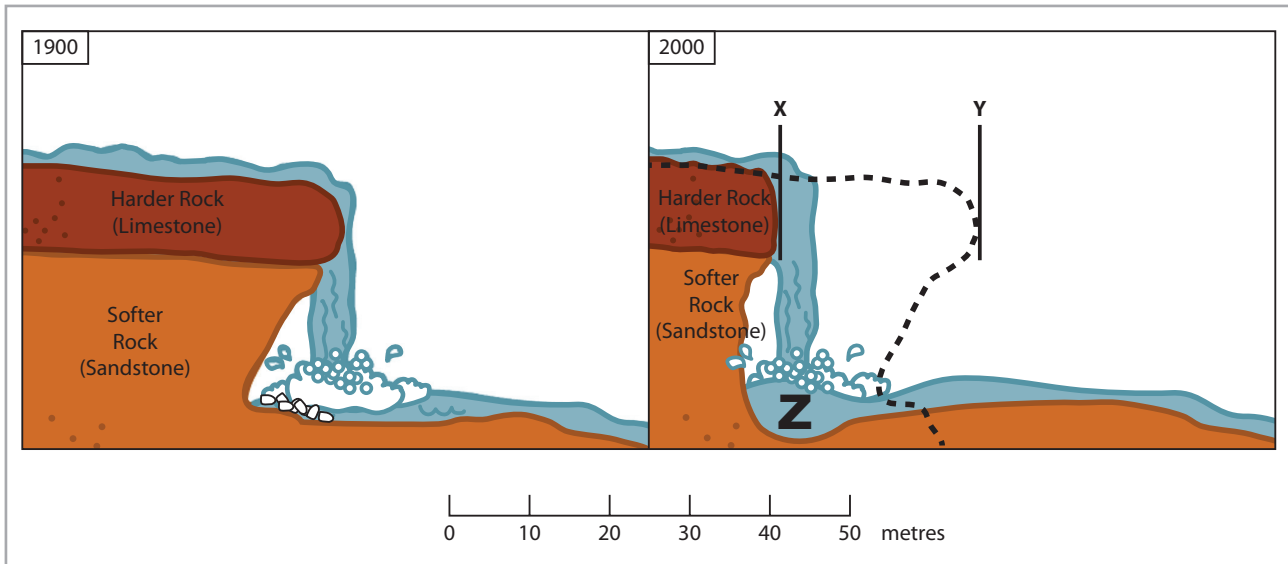


Figure 2a

(i) Name the characteristic feature of a waterfall at Z.

(1)

(ii) How much retreat has occurred between X and Y?

(1)

..... m



(iii) Explain how erosion will cause this waterfall to retreat.

Use evidence from Figure 2a in your answer.

(3)

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(iv) Compare the characteristic features of a river in its upper and lower stages.

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(b) (i) Outline the process of slumping.

(2)

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(ii) State **one** impact of slumping on river landscapes.

(1)

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(iii) Explain the formation of levees.

Use a diagram(s) in your answer.

(4)

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(c) Study Figure 2b (photograph) in the Resource Booklet.

It shows a river flood in Cumbria in 2009.

(i) Describe the effects of the flooding shown in Figure 2b.

(3)

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(ii) Explain how the effects of river flooding can be reduced.

Use examples in your answer.

(6)

Area with horizontal dotted lines for writing the answer.

(Total for Question 2 = 25 marks)



Topic 3: Glaciated Landscapes

If you answer Question 3 put a cross in this box .

3 (a) Study Figure 3a.

It shows the retreat of a glacier between 1980 and 1990.

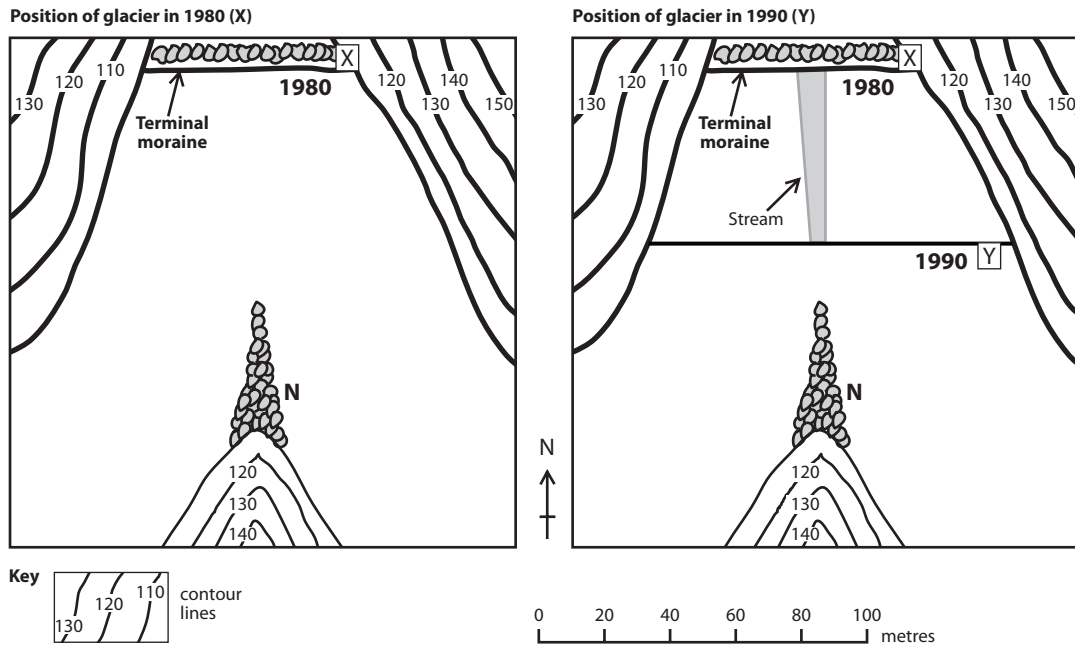


Figure 3a

(i) How far did the glacier retreat between X and Y?

(1)

..... m

(ii) In which direction did the glacier retreat between X and Y?

(1)

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(iii) Name the type of moraine shown at N.

(1)

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(iv) Figure 3a is a map of a U-shaped valley.
Explain how a U-shaped valley is formed.
You may use a diagram(s) in your answer.

(3)

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(v) Compare the processes of lodgement and ablation.

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(b) (i) Outline the process of freeze-thaw weathering.

(2)

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(ii) State **one** impact of freeze-thaw weathering on glacial landscapes.

(1)

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(iii) Explain the formation of an arête.

Use a diagram(s) in your answer.

(4)

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(c) Study Figure 3b (cartoon) in the Resource Booklet.

It shows people in an upland glaciated area.

(i) Suggest the ways in which the people in Figure 3b could cause an avalanche. (2)

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(ii) Explain how the effects of avalanches can be reduced.

Use examples in your answer.

(6)

Area with horizontal dotted lines for writing the answer.

(Total for Question 3 = 25 marks)

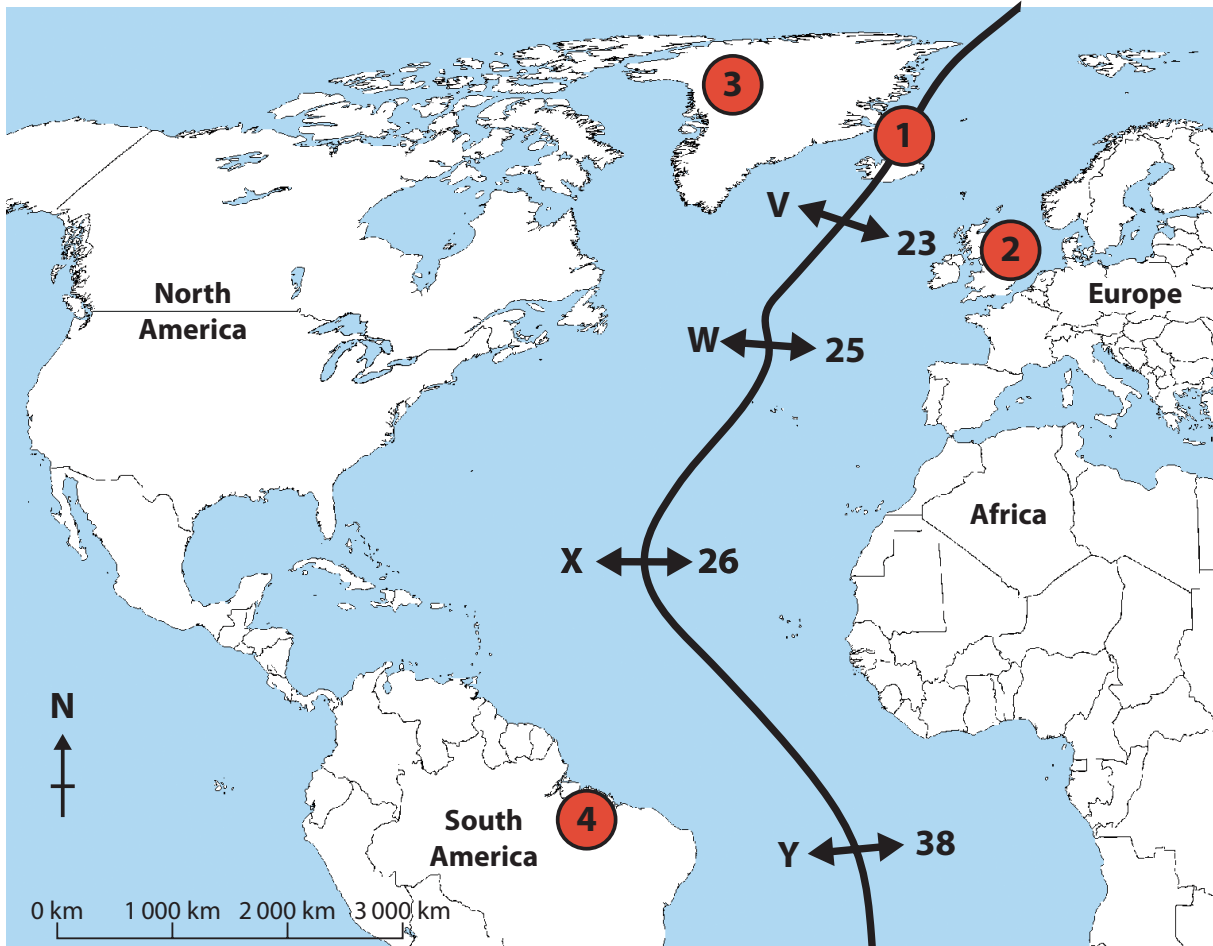


Topic 4: Tectonic Landscapes

If you answer Question 4 put a cross in this box .

4 (a) Study Figure 4a.

It shows rates of plate movement along the Mid-Atlantic Ridge.



X \longleftrightarrow **26** = movement in mm per year, at that point on the plate boundary

Figure 4a

(i) Which point **V**, **W**, **X** or **Y** on the Mid-Atlantic Ridge has the most movement per year?

(1)



(ii) Describe the movements shown along this plate boundary.

(3)

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(iii) On Figure 4a there are four red spots marked 1 to 4.

Which red spot shows the location of a volcano?

(1)

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(iv) Explain how volcanoes occur at divergent plate boundaries.

(4)

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(v) Compare the characteristic features of convergent plate boundaries and conservative plate boundaries.

(4)

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(b) Why do people continue to live in areas affected by earthquakes?

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(c) Study Figure 4b (photograph) in the Resource Booklet.

It shows an area affected by the Haiti earthquake in 2010.

(i) Describe how planning before the event could have reduced the effects of this earthquake.

(3)

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(ii) Explain the effects of a volcanic eruption or an earthquake.

(6)

Handwriting practice area consisting of 25 horizontal dotted lines for writing the answer to the question above.

(Total for Question 4 = 25 marks)

TOTAL FOR SECTION A = 25 MARKS



SECTION B – ENVIRONMENTAL ISSUES

Answer EITHER Question 5 OR Question 6.

Topic 5: A Wasteful World

If you answer Question 5 put a cross in this box .

5 (a) Study Figure 5a.

It is a pie chart showing types of waste in Surrey.

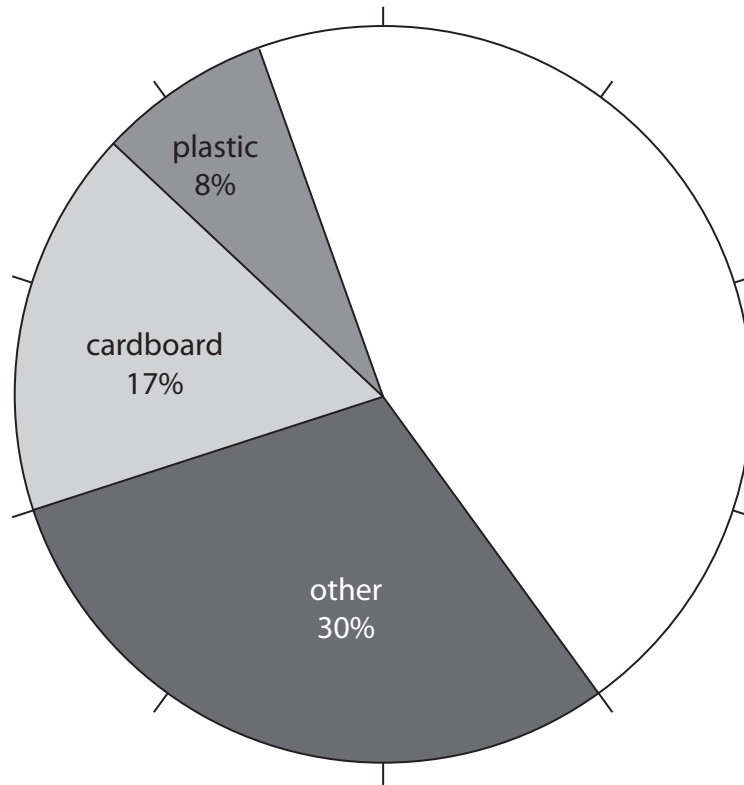


Figure 5a

(i) Complete the pie chart.

Use the data in the table below.

(2)

Type of waste	Percentage (%)
Food	10
Paper	30
Wood	5



(ii) Suggest reasons why people in High Income Countries (HICs) create more waste than people in Low Income Countries (LICs).

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(iii) Outline how HICs dispose of domestic waste.

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(b) Study Figure 5b in the Resource Booklet.

It is a map of nuclear power stations in Great Britain.

(i) Name **one** power station which generates 1001–1250 MW of nuclear power. (1)

(ii) Describe the distribution of nuclear power stations in Great Britain.
Use evidence from Figure 5b in your answer. (4)

(c) Explain the disadvantages of types of renewable energy. (4)



Topic 6: A Watery World

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

6 (a) Study Figure 6a.

It is a pie chart of domestic water usage in Canada, a High Income Country (HIC).

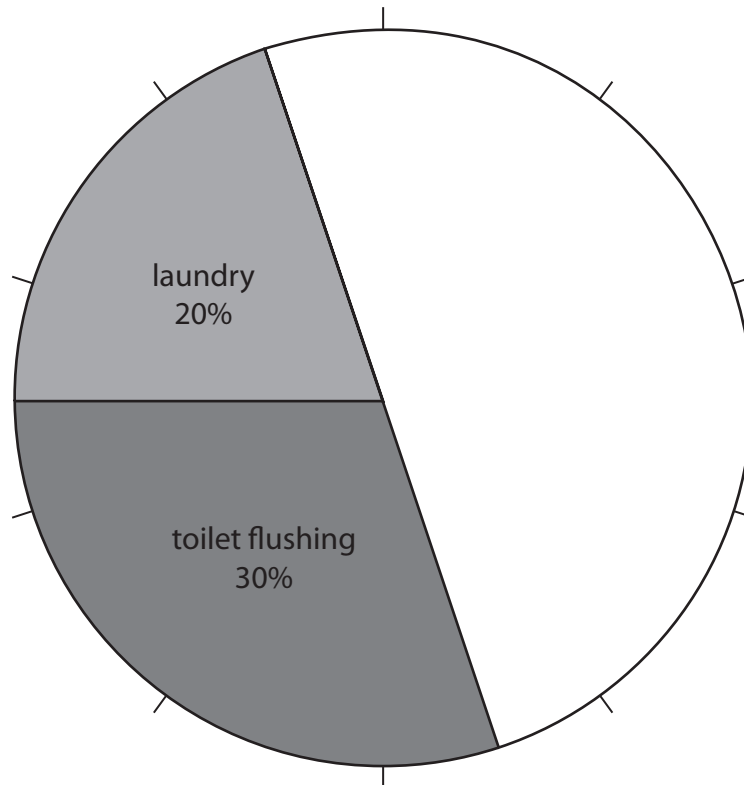


Figure 6a

(i) Complete the pie chart.

Use the data in the table below.

(2)

Waste Usage	Percentage (%)
Kitchen and drinking	10
Shower and bath	35
Cleaning	5



P 3 8 8 6 3 A 0 2 9 3 2

(ii) Suggest reasons why water consumption differs between High Income Countries (HICs) and Low Income Countries (LICs).

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(b) Study Figure 6b (map) in the Resource Booklet.

It shows water supply problems in England.

(i) Name a region with low water supply problems in England.

(1)

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(ii) Describe the distribution of water supply problems in England.

Use evidence from Figure 6b in your answer.

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(iii) Suggest reasons for the water supply problems shown in Figure 6b.

(4)

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(c) Explain how HICs manage their usage of water in industry and agriculture.

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Edexcel GCSE

Geography A

Unit 2: The Natural Environment

Paper 2F and 2H

Friday 17 June 2011 – Morning
Resource Booklet

Paper Reference
5GA2F/01
5GA2H/01

Do not return the Resource Booklet with the question paper.

Information

This Resource Booklet contains maps and photographs needed for use with the Unit 2: The Natural Environment examination.

This Resource Booklet is for use with both foundation and higher tier papers.

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SECTION A – THE PHYSICAL WORLD

Topic 1: Coastal Landscapes



(By kind permission: S. Warren)

Figure 1b

Topic 2: River Landscapes



Figure 2b

Topic 3: Glaciated Landscapes



"I sure am glad we came up here to practice for the Talent Show."

(Source: CartoonStock.com)

Figure 3b

Topic 4: Tectonic Landscapes



Figure 4b

SECTION B – ENVIRONMENTAL ISSUES

Topic 5: A Wasteful World



Figure 5b

Water supply problems in England

Water supply problems

- Serious
- Moderate
- Low
- Not assessed

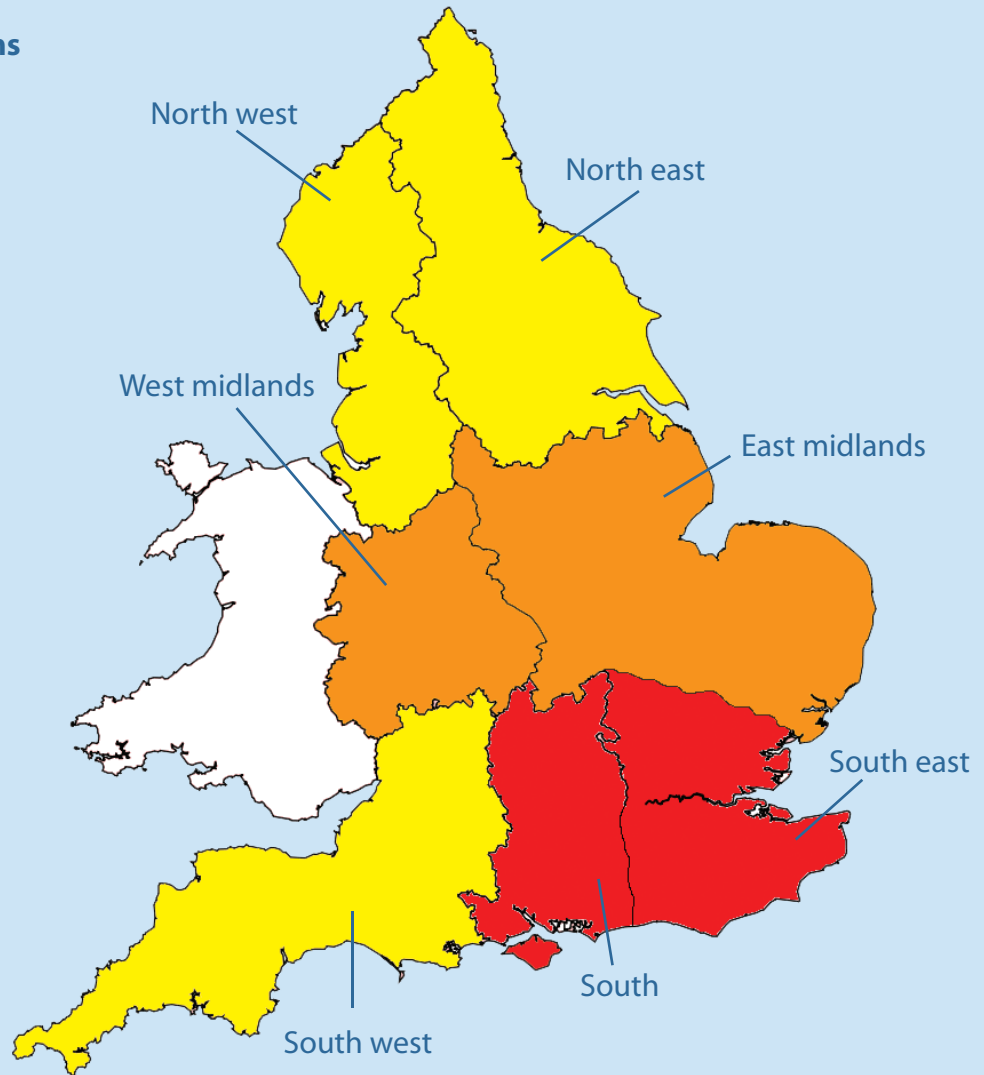


Figure 6b

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