

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Edexcel GCSE**

# Geography A

## Unit 2: The Natural Environment

**Higher Tier**

Thursday 17 June 2010 – Afternoon

**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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## 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 an area of coast at Freshwater, Isle of Wight.



Figure 1a

- (i) Name landform **X**. (1)

- 
- (ii) Label **two** other coastal landforms on Figure 1a. (2)



(iii) Explain the formation of **one** of the landforms you labelled in (ii).

You may use a diagram in your answer.

(4)

Chosen landform .....

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(b) Study Figure 1b in the Resource Booklet. It shows coastal recession on a small section of the Holderness coastline.

(i) What type of mass movement has occurred here? (1)

(ii) Describe the effects of mass movement shown on Figure 1b. (3)

(iii) Explain the factors affecting the rate of coastal recession. (4)



(c) Explain how coastal flooding can be reduced through planning and forecasting.

(4)

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(d) Choose an area of coast you have studied.

Explain how this area of coastline has been managed.

(6)

Chosen area .....

Dotted lines for writing.

**(Total for Question 1 = 25 marks)**



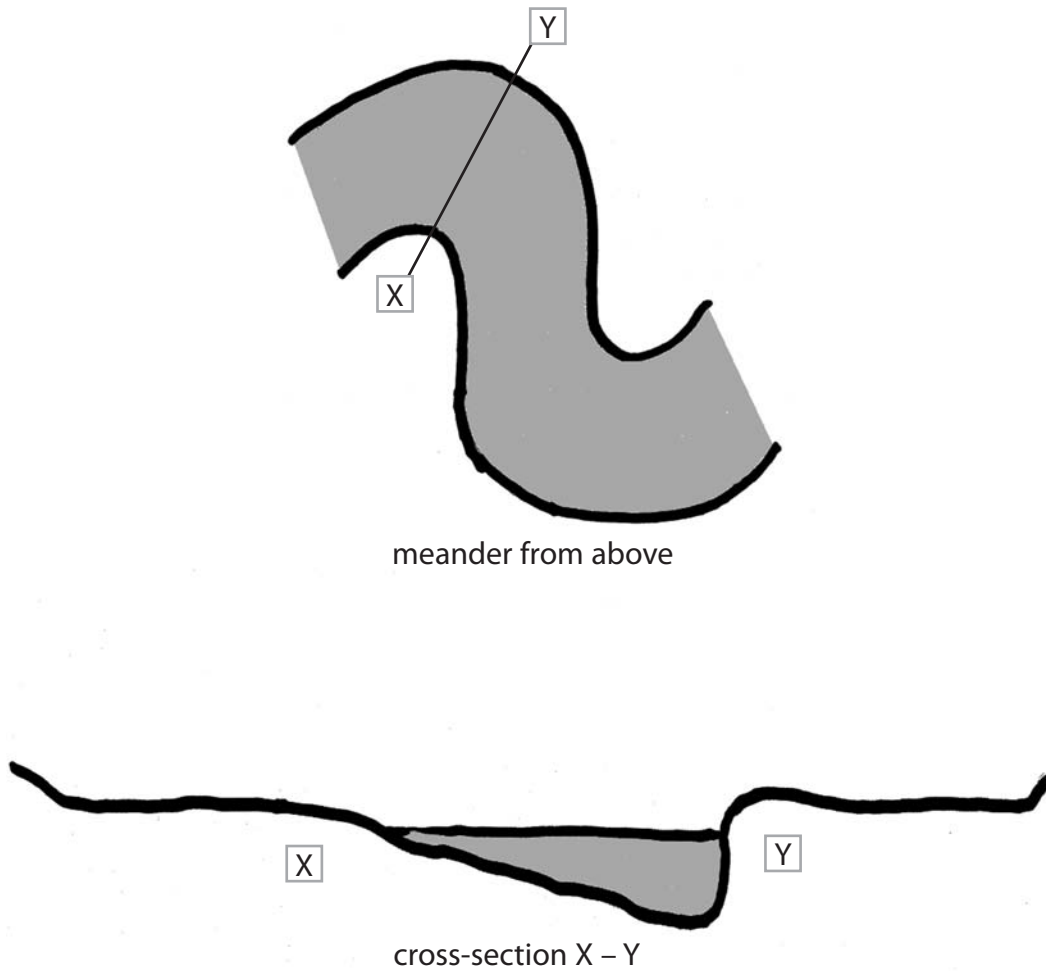
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## Topic 2: River Landscapes

If you answer Question 2 put a cross in this box

- 2 (a) Study Figure 2a. It shows a meander from above and as a cross-section.



**Figure 2a**

- (i) Label **two** characteristic features of a meander on the cross-section.

(2)





(ii) Explain the formation of a meander.

You may use a diagram in your answer.

(4)

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(iii) Which landform can meanders develop into?

(1)

(b) Study Figure 2c in the Resource Booklet. It shows an area affected by flooding in a Low Income Country (LIC).

(i) What is landform **S**?

(1)

(ii) Outline the main effects of the recent flood shown in Figure 2c.

(3)

(iii) Explain how flooding can be caused by physical factors.

(4)



(c) Explain how planning and building design can reduce the effects of flooding.

(4)

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### Topic 3: Glaciated Landscapes

If you answer Question 3 put a cross in this box

- 3 (a) Study Figure 3a (a photograph of a drumlin) in the Resource Booklet and Figure 3b below, a sketch of Figure 3a.

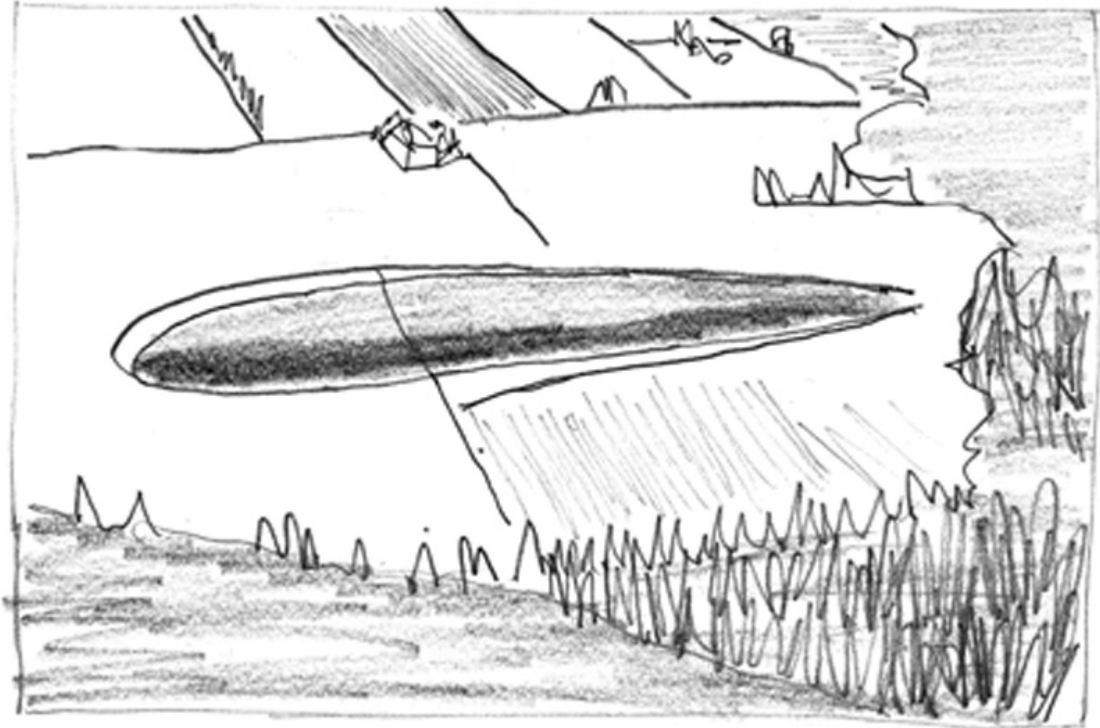


Figure 3b

- (i) Draw an arrow on Figure 3b to show the direction of ice movement. (1)
- (ii) Label on Figure 3b the **stoss end** and the **lee slope**. (2)
- (iii) Explain the formation of a drumlin. (4)

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(b) Study Figure 3c (photograph) in the Resource Booklet. It shows a glaciated upland in Iceland.

(i) Name landform **Y**.

(1)

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(ii) Landform **Z** is a U-shaped valley.

Explain how a U-shaped valley is formed.

You may use a diagram in your answer.

(4)

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(iii) Suggest which human activities could take place in glaciated areas such as Figure 3c.

(3)

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(c) Explain how planning and defences enable people to reduce the effects of avalanches.

(4)

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(d) Choose an avalanche you have studied.

Explain the effects of the avalanche on the local people and the environment.

(6)

Chosen study .....

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**(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 a plate boundary.



Figure 4a

- (i) Which type of plate boundary is shown in Figure 4a? (1)
- 
- (ii) Draw arrows on Figure 4a to show the direction of plate movement. (1)
- (iii) Name the type of plate shown at **A** on Figure 4a. (1)
- 



(iv) Explain how volcanoes form at this plate boundary.

You may use a diagram in your answer.

(4)

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(b) Study Figure 4b (photograph) in the Resource Booklet. It shows an area of Kobe affected by an earthquake.

(i) State the main effect shown in Figure 4b?

(1)

(ii) Explain why some buildings are still standing in Figure 4b.

(3)

(iii) The area in Figure 4b is near the epicentre.

What is the epicentre?

(1)

(iv) Outline the differences between the Mercalli and the Richter scales.

(3)



(c) Suggest reasons why people continue to live in areas affected by volcanic eruptions.

(4)

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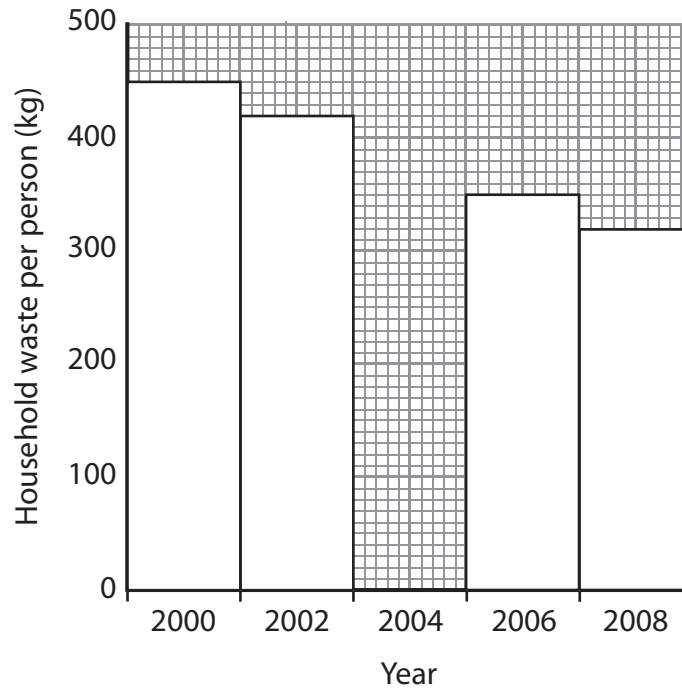
**SECTION B – ENVIRONMENTAL ISSUES**

**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 shows the amount of household waste per person for selected years.



**Figure 5a**

- (i) Complete Figure 5a.

Use the data in the table below.

<b>Year</b>	<b>Household waste per person (kg)</b>
2004	370

(1)



(ii) Suggest **one** reason for the changes shown in Figure 5a.

(2)

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(iii) Describe the different types of domestic waste produced by High Income Countries (HIC).

(3)

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(b) Study Figure 5b (map) in the Resource Booklet. It shows energy use by country in Europe.

(i) What is the energy use for the UK?

(1)

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(ii) How many countries in Europe have an energy balance?

(1)

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(iii) Describe the distribution of energy use in Europe.

Use evidence from the map in your answer.

(3)

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(iv) Choose **one** type of renewable fuel and **one** type of non-renewable fuel.

Explain their disadvantages.

(4)

Renewable fuel .....

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Non-renewable fuel .....

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(c) Explain two ways of reducing energy wastage, on a local scale, in the UK.

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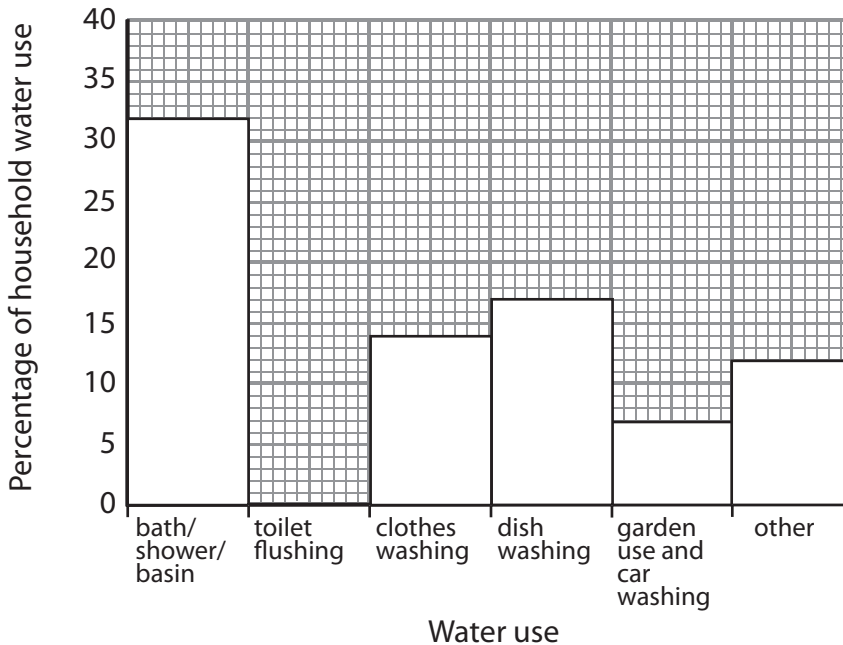
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## Topic 6: A Watery World

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

**6** (a) Study Figure 6a. It shows household water use in the UK.



**Figure 6a**

(i) Complete the bar chart for toilet flushing (Figure 6a).

Use the data in the table below.

(1)

Household water use	%
Toilet flushing	25

(ii) The data in Figure 6a is for a High Income Country (HIC).

Justify this statement.

(3)

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(iii) Name **two** other water uses not shown on Figure 6a.

(2)

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(b) Study Figure 6b in the Resource Booklet. It shows a map of rainfall distribution in Great Britain for winter 2009.

(i) Which region of Great Britain had the highest amount of rainfall in winter 2009?

(1)

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(ii) The average rainfall in Great Britain in winter 2009 was 231mm.  
How many regions were below average?

(1)

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(iii) Describe the distribution of rainfall in Great Britain shown on Figure 6b.  
Use rainfall data in your answer.

(3)

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(iv) There is an imbalance between water supply and population in Great Britain.

Explain why.

(4)

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(c) Explain **two** water supply problems in Low Income Countries.

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