

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Edexcel GCSE**

# Geography A

## Unit 2: The Natural Environment

**Higher Tier**

Wednesday 12 June 2013 – 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 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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6/8/8/4/3



**PEARSON**

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 .

Some questions must be answered with a cross in a box . If you change your mind about an answer, put a line through the box  and then mark your new answer 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 a constructive wave.

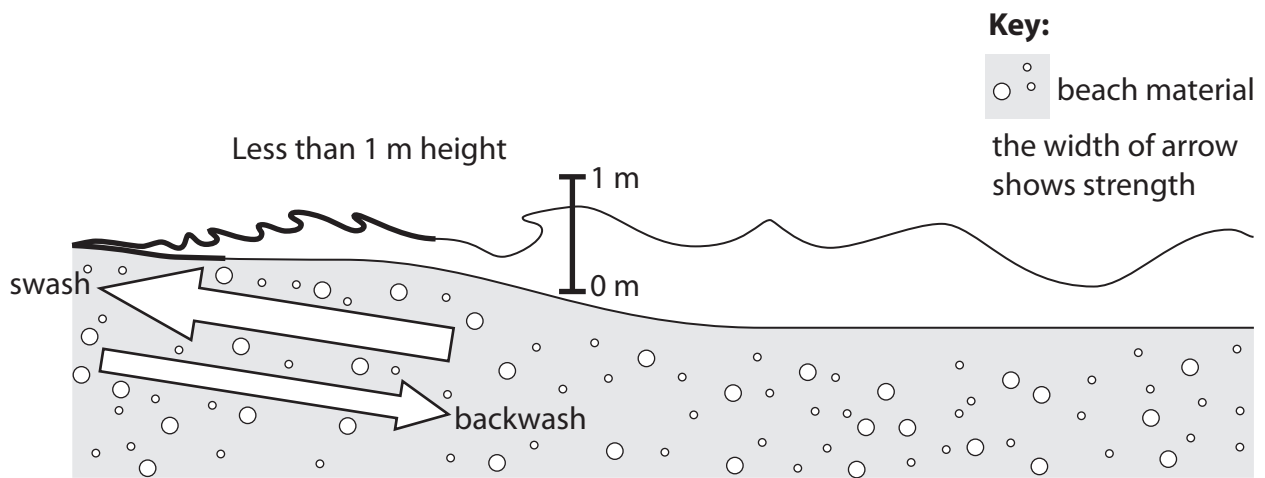


Figure 1a

(i) Using Figure 1a, state **one** feature of a constructive wave.

(1)

(ii) State **two** other features of a constructive wave.

(2)

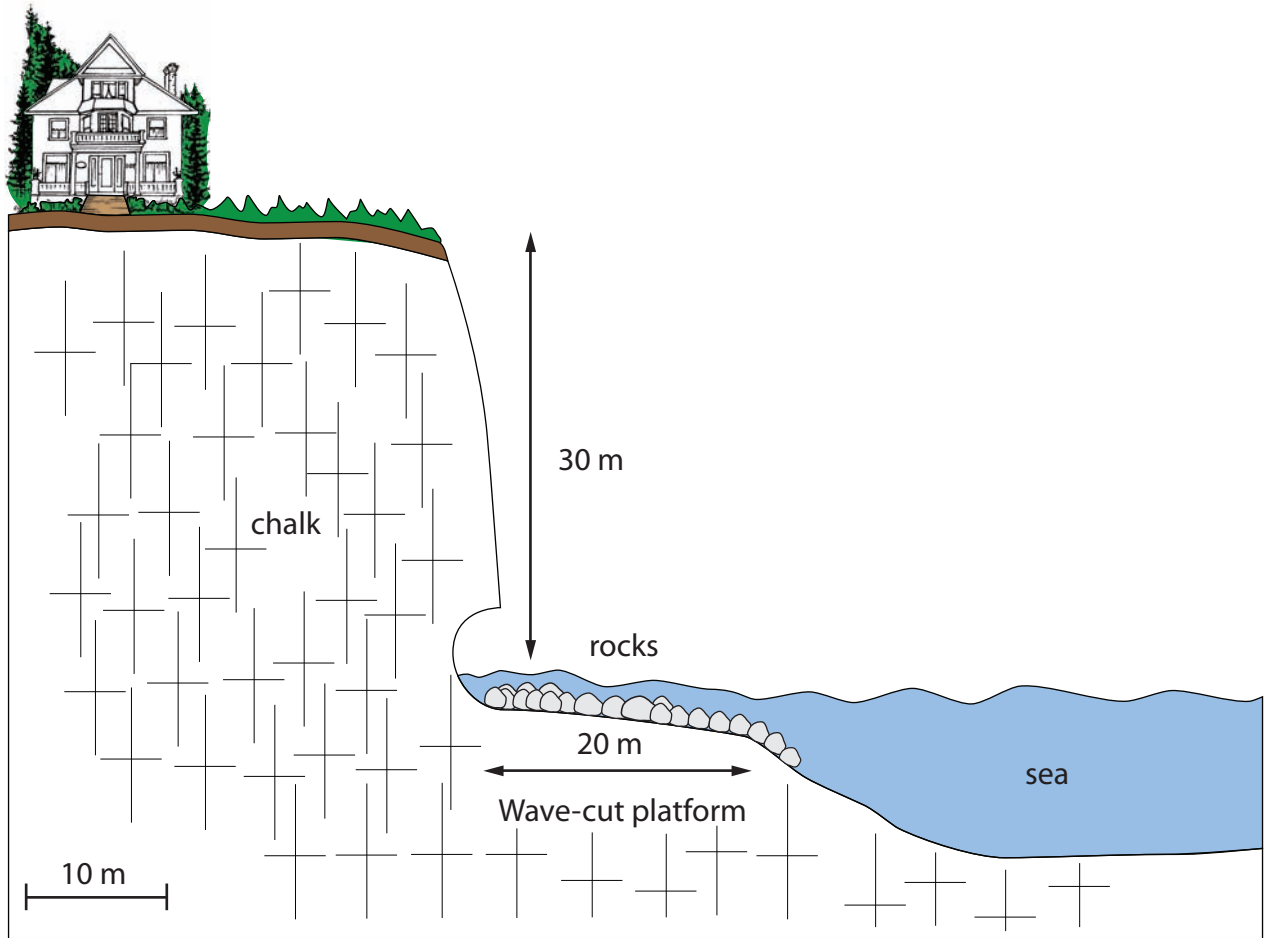
1 .....

2 .....



(b) Study Figure 1b.

It shows coastal landforms.



**Figure 1b**

(i) Describe the cliff and wave-cut platform.

Use evidence from Figure 1b in your answer.

(4)

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(ii) Explain the formation of headlands and bays.

You may use a labelled diagram(s) in your answer.

(4)

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(c) Outline how mass movement impacts on coastal landforms.

(3)

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

It shows coastal management.

(i) Name a type of coastal management shown in Figure 1c.

(1)

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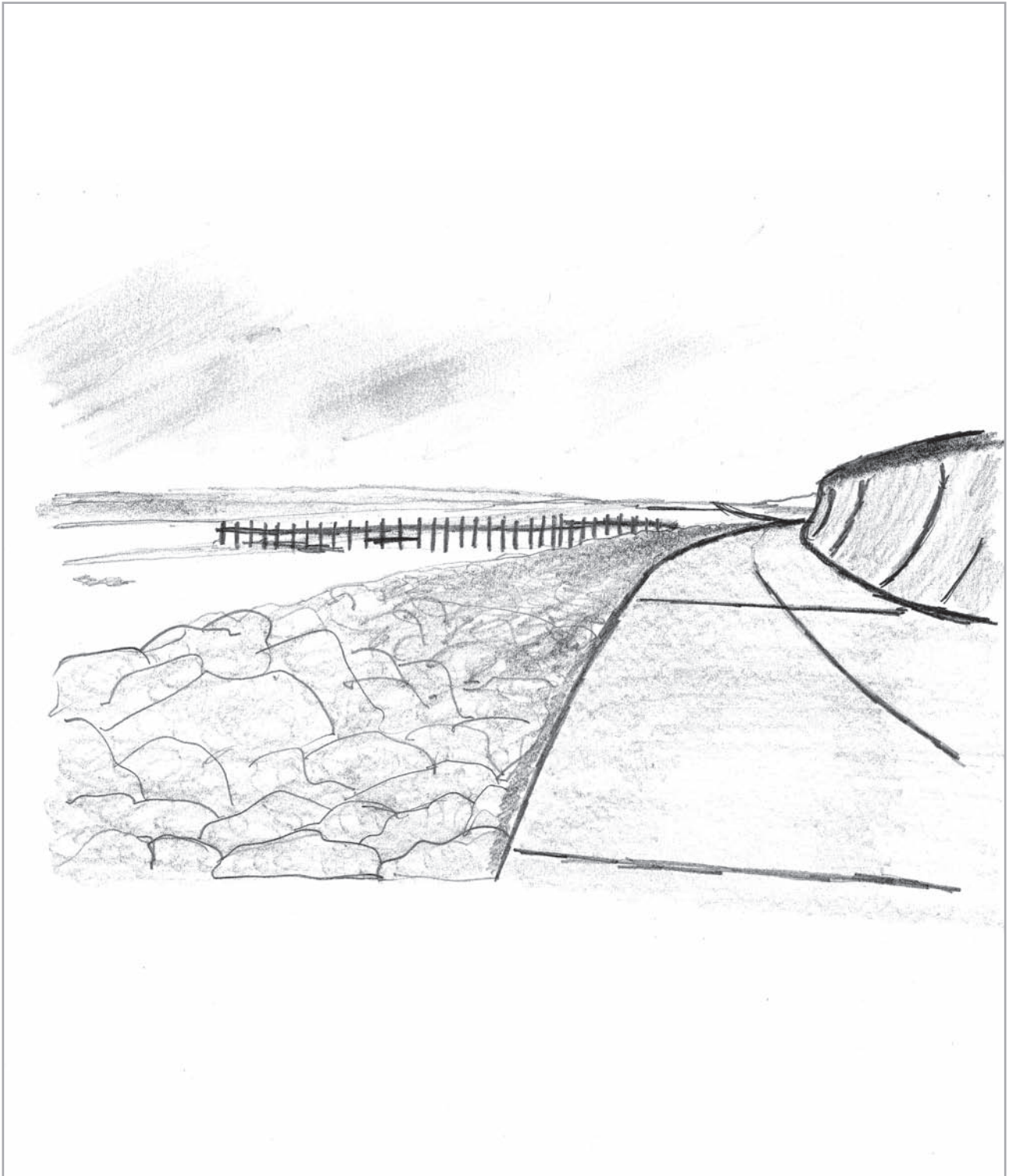


(ii) In the box below is a sketch of Figure 1c.

Annotate the sketch to explain how **one** of the coastal management methods reduces the effects of coastal recession.

(4)

Chosen method .....



\*(e) Explain how coastal recession affects people and the environment.

Use examples in your answer.

(6)

Area with 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 a drainage basin.

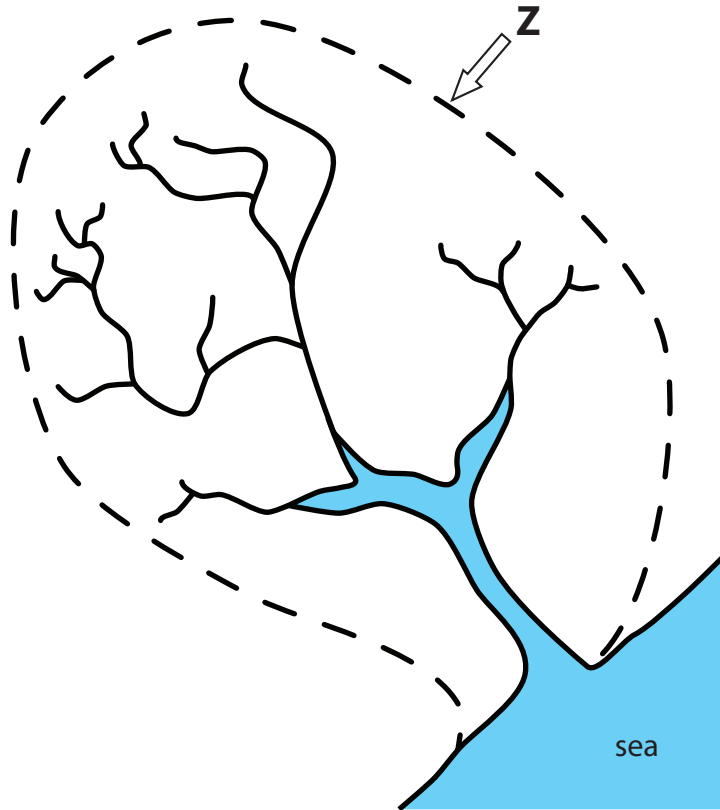


Figure 2a

(i) Name feature **Z** shown on Figure 2a.

(1)

(ii) Name **two** other features of the drainage basin shown on Figure 2a.

(2)

1 .....

2 .....





(b) Study Figure 2b.

It shows river landforms in Iceland.



**Figure 2b**

(i) Describe the river landforms shown in Figure 2b.

Use evidence from Figure 2b in your answer.

(4)

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(ii) Explain the formation of a waterfall.

You may use a labelled diagram(s) in you answer.

(4)

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(c) Outline how mass movement impacts on river landforms.

(3)

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

It shows river management.

(i) Name the type of river management shown in Figure 2c.

(1)

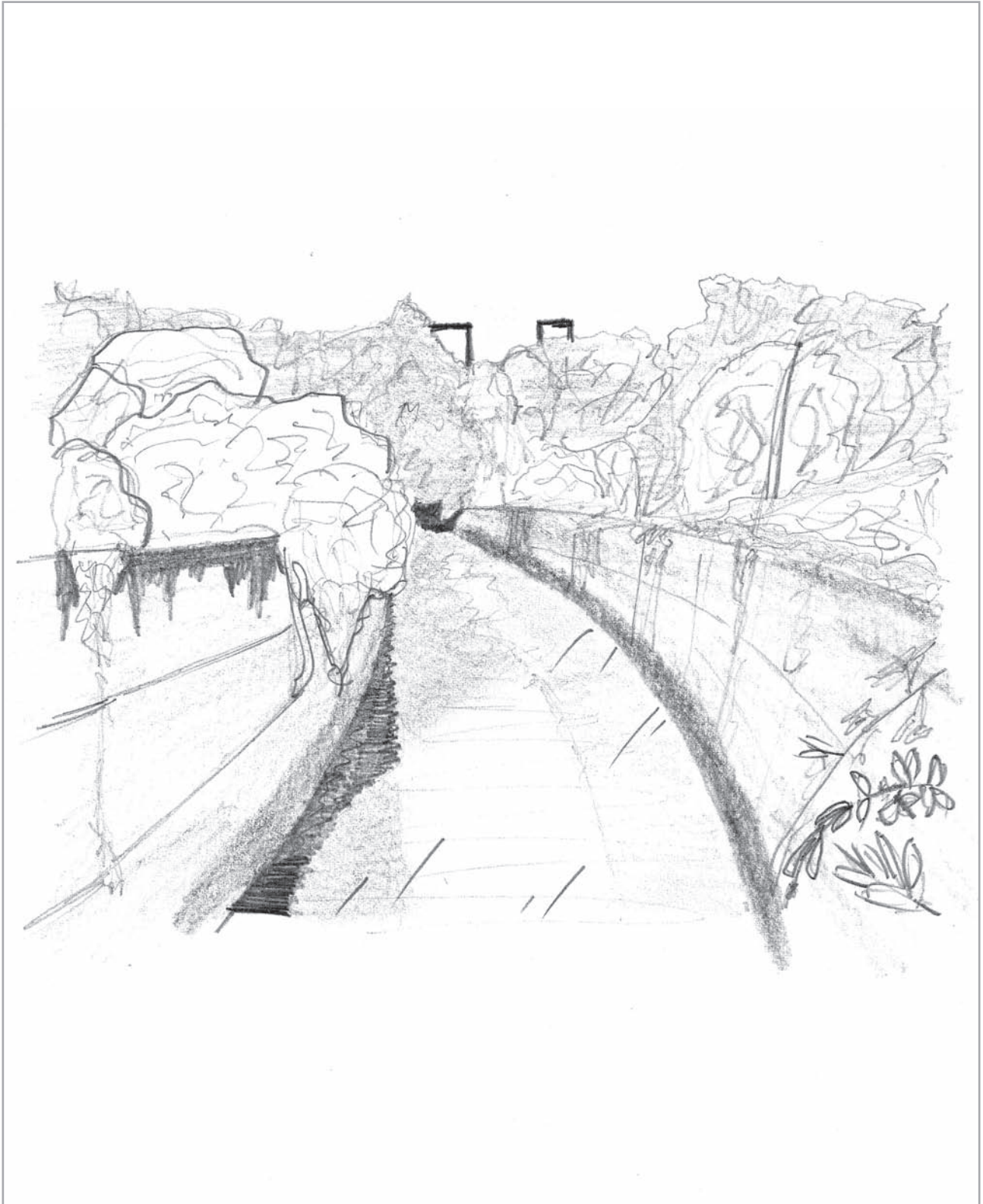
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(ii) In the box below is a sketch of Figure 2c.

Annotate the sketch to explain how the river management method reduces the effects of erosion and/or flooding.

(4)



\*(e) Explain how flooding affects people and the environment.

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 a corrie with glacial processes.

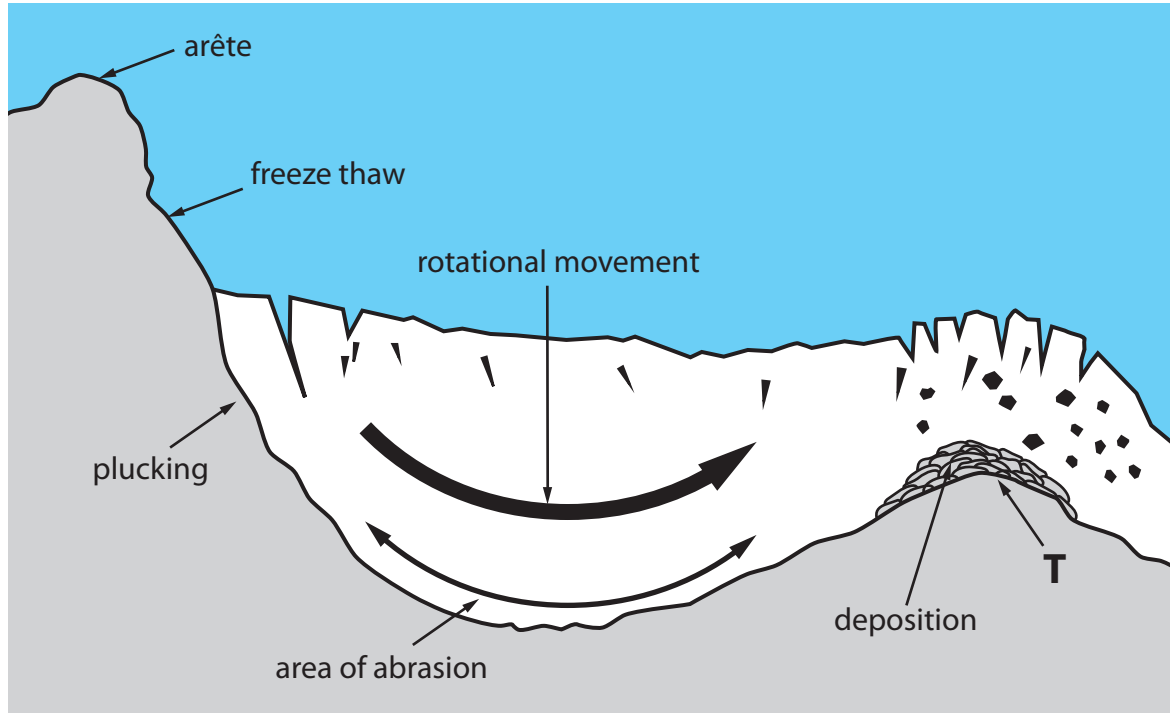


Figure 3a

(i) Name feature **T** shown on Figure 3a.

(1)

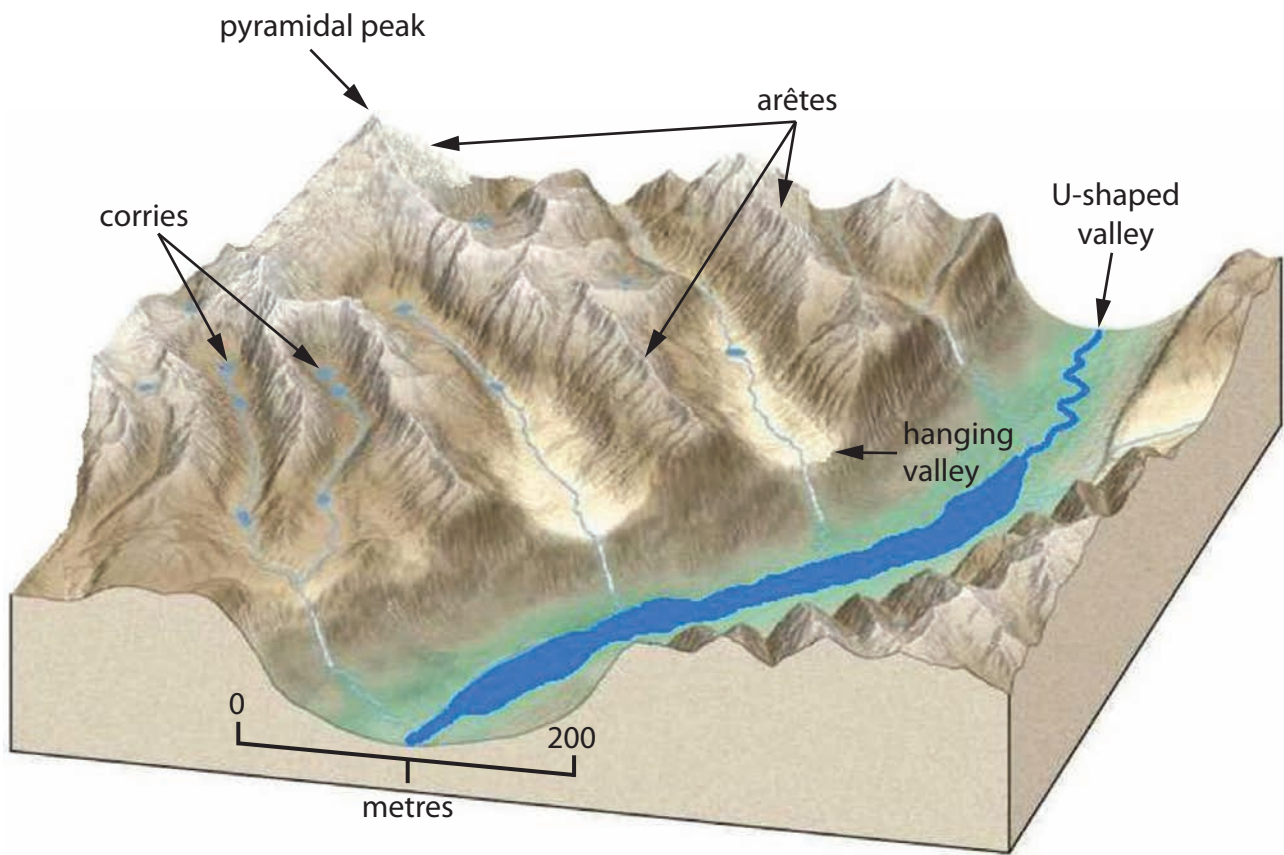
(ii) Define the term **abrasion**.

(2)



(b) Study Figure 3b.

It shows upland glacial landforms.



**Figure 3b**

(i) Describe the features of hanging valleys and U-shaped valley shown on Figure 3b.

Use evidence from Figure 3b in your answer.

(3)

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(ii) Explain the formation of a ribbon lake.

You may use a labelled diagram(s) in your answer.

(4)

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(c) Outline **two** ways people use glaciated landscapes.

Use examples in your answer.

(4)

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(d) Study Figure 3c (photograph) in the Resource Booklet.

It shows methods of managing avalanches.

(i) Name a method used to protect against the effects of avalanches shown in Figure 3c.

(1)

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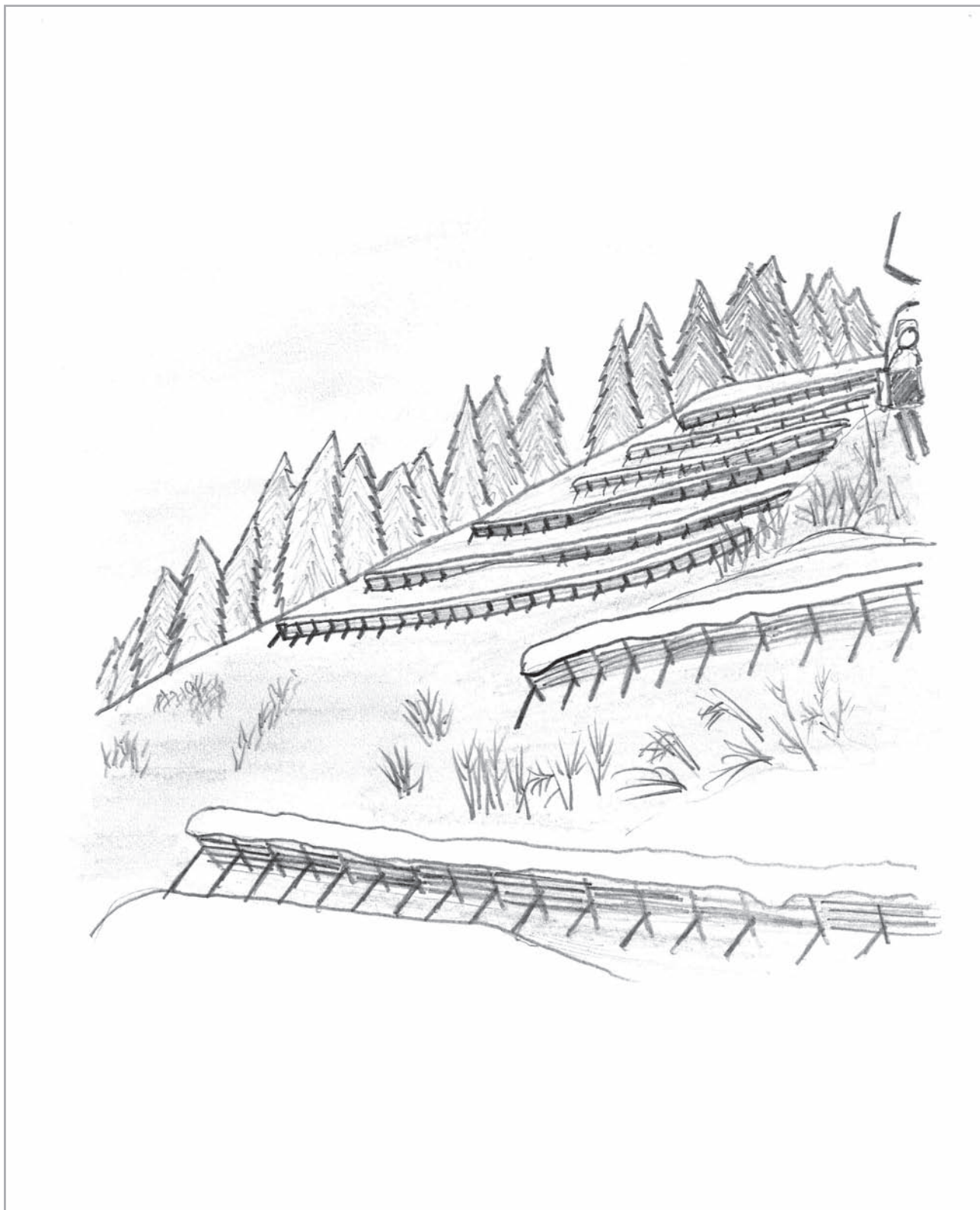


(ii) In the box below is a sketch of Figure 3c.

Annotate the sketch to explain how **one** method reduces the effects of avalanches.

(4)

Chosen method .....





### Topic 4: Tectonic Landscapes

If you answer Question 4 put a cross in this box

4 (a) Study Figure 4a.

It shows the distribution of tectonic activity in New Zealand.

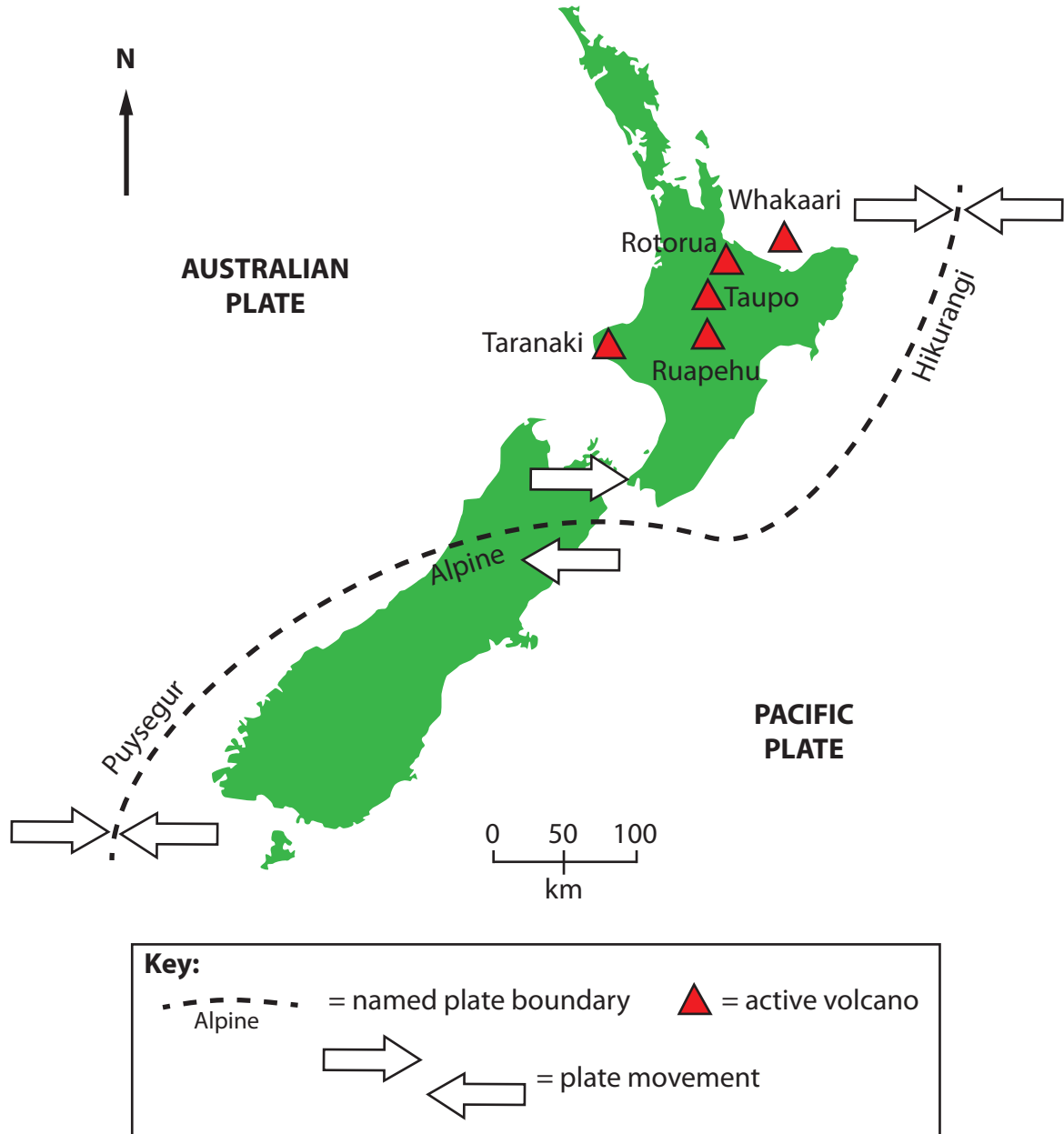


Figure 4a

(i) Name an active volcano in Figure 4a on the west coast of New Zealand.

(1)



(ii) Name **one** conservative and **one** convergent plate boundary shown on Figure 4a.

(2)

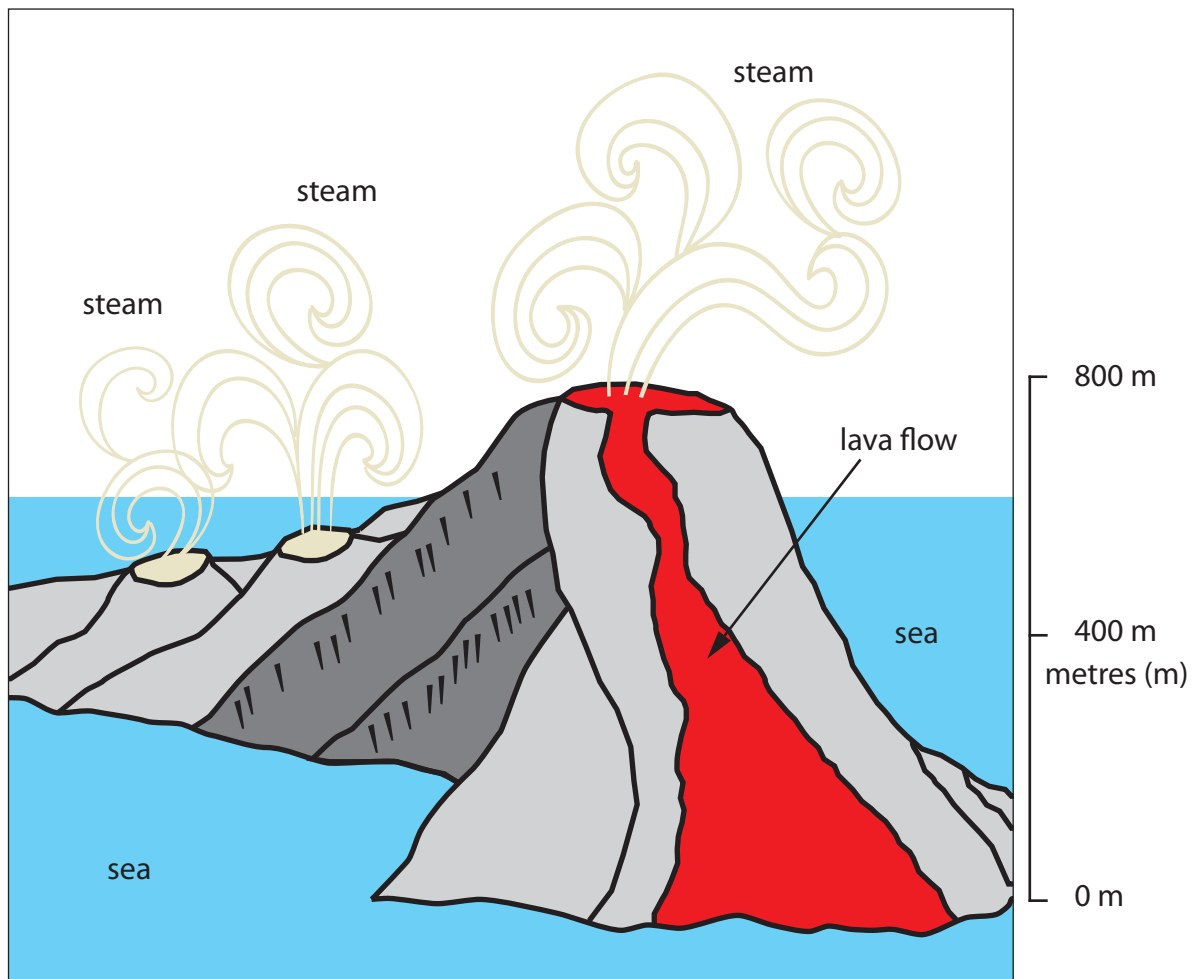
Conservative .....

Convergent .....



(b) Study Figure 4b.

It shows tectonic landforms on an ocean island.



**Figure 4b**

(i) Describe the landforms shown in Figure 4b.

Use evidence from Figure 4b in your answer.

(3)

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(ii) Explain the formation of a volcano at a hotspot.

You may use a labelled diagram(s) in your answer.

(4)

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(c) Outline **two** economic reasons why people continue to live in areas of volcanic activity.

(4)

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(d) Study Figures 4c1 and 4c2 (images) in the Resource Booklet.

It shows different ways to monitor and protect against earthquakes.

(i) Name the method used to monitor (forecast) earthquakes in Figure 4c1.

(1)

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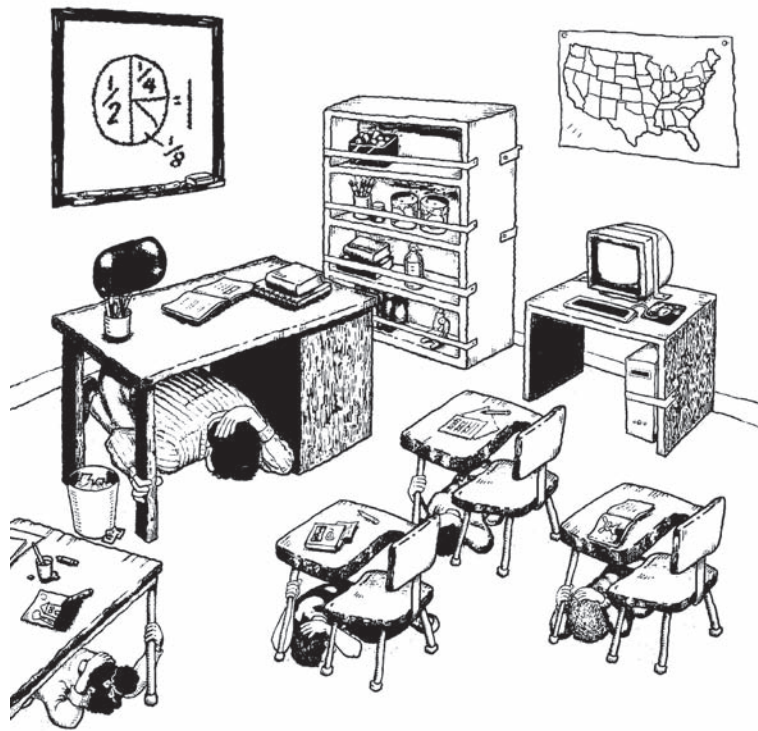




(ii) In the box below is a copy of Figure 4c2.

Annotate the image to explain how the effects of earthquakes can be reduced.

(4)





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**Section B is on the next page**



**SECTION B – ENVIRONMENTAL ISSUES**

**Answer EITHER Question 5 OR Question 6.**

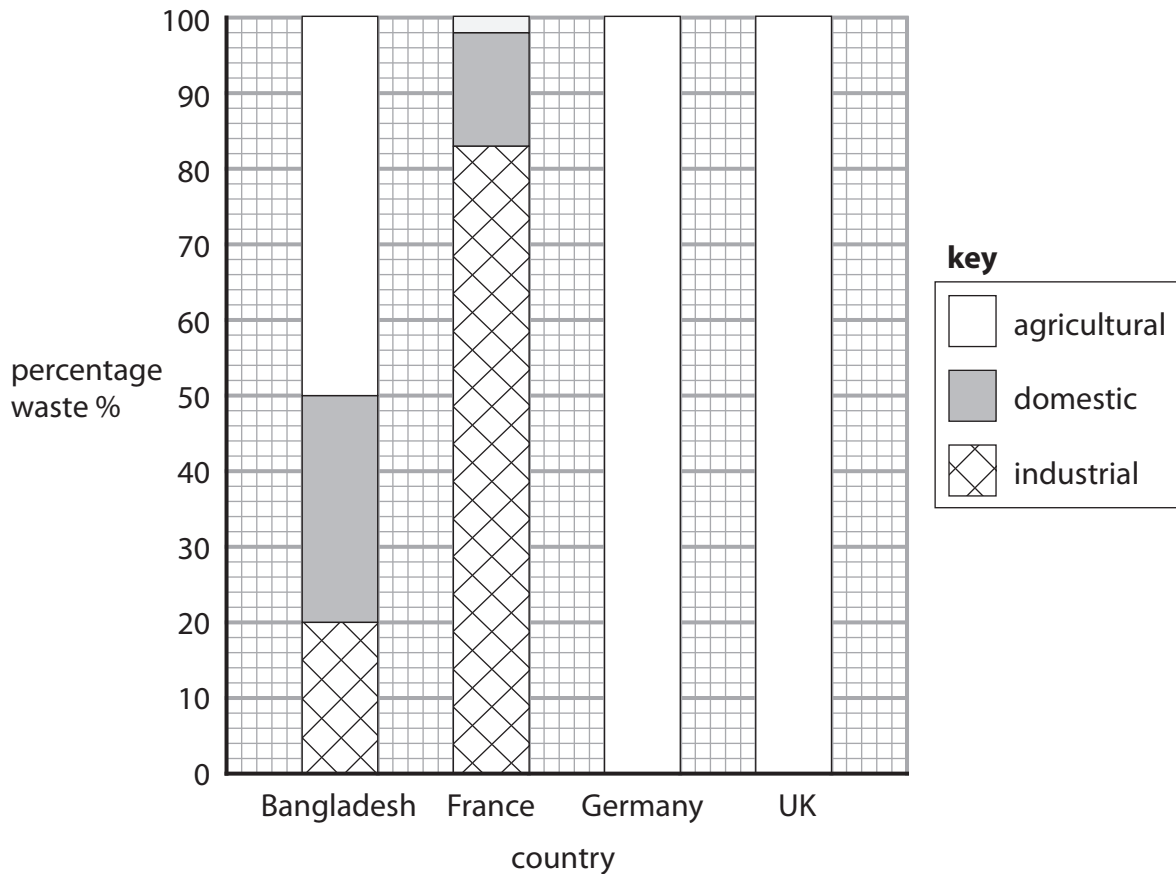
**Topic 5: A Wasteful World**

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

**Spelling, punctuation and grammar will be assessed in \*(c).**

**5** (a) Study Figure 5a.

It is a graph showing the different types of waste produced by different countries.



**Figure 5a**

(i) Complete the bars using information in the table below.

(2)

Country	Type of waste		
	Industrial %	Domestic %	Agricultural %
Germany	80	15	5
UK	75	20	5



(ii) Name the Low Income Country (LIC) shown on Figure 5a.

(1)

(iii) Describe the differences in the types of waste produced by the High Income Countries (HICs) shown on Figure 5a.

Use waste data in your answer.

(4)

(iv) The wealthier people in HICs create more waste than poorer people in LICs.



Explain how.

(4)



(b) Study Figure 5b.

It shows different carbon footprints for selected UK household products.

Product	Photograph	Carbon footprint
Banana		80g CO <sub>2</sub>
Large coffee		340g CO <sub>2</sub>
Bottle of water (500ml)		160g CO <sub>2</sub>
Toilet roll (made from recycled paper)		450g CO <sub>2</sub>

**Figure 5b**



(i) Rank the products to show their carbon footprint from the highest to lowest. (1)

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(ii) Calculate the carbon footprint for the two drinks shown on Figure 5b. (1)

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(iii) Define the term **carbon footprint**. (2)

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(iv) Explain how people can reduce their energy wastage. (4)

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**Question 6 is on the next page**



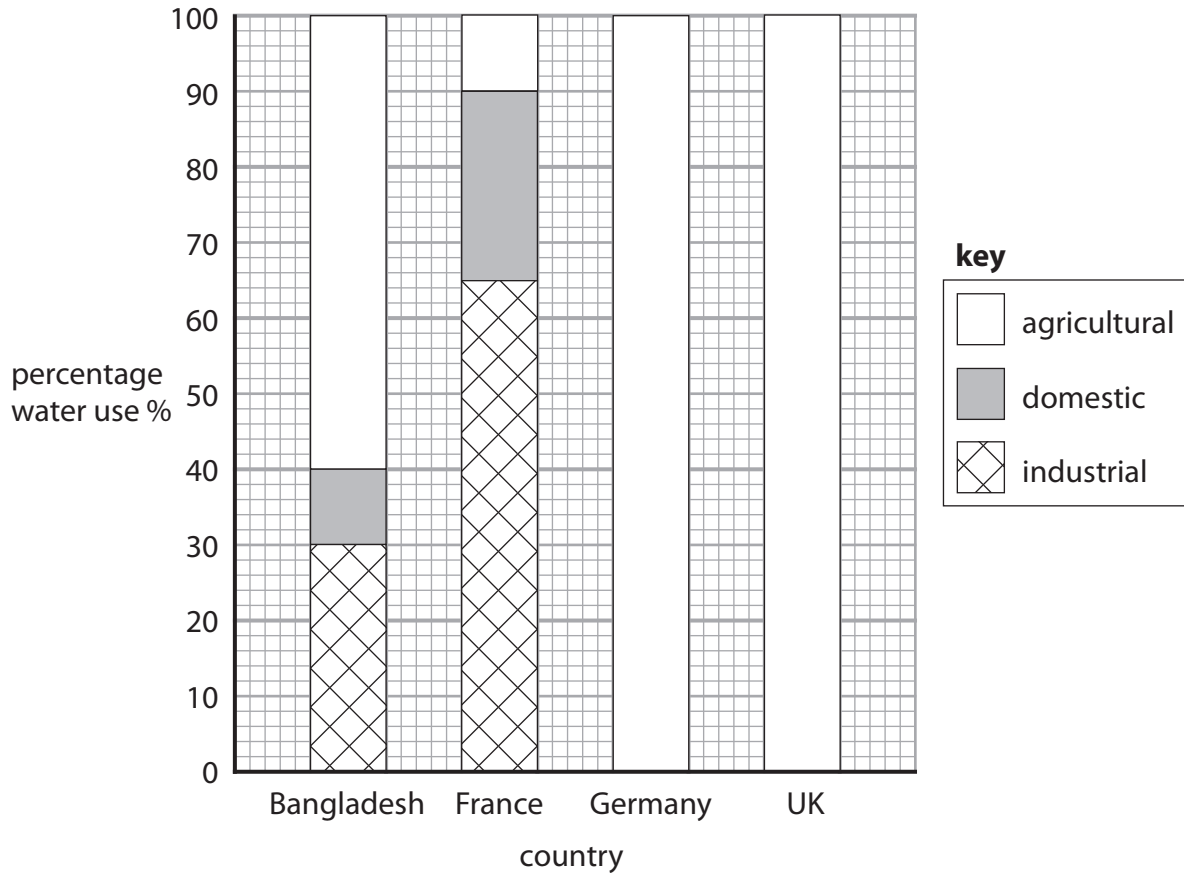
## Topic 6: A Watery World

If you answer Question 6 put a cross in this box

**Spelling, punctuation and grammar will be assessed in \*(c).**

6 (a) Study Figure 6a.

It is a graph showing water use in different countries.



**Figure 6a**

(i) Complete the bars using the information in the table below.

(2)

Country	Water use		
	Industrial %	Domestic %	Agricultural %
Germany	70	20	10
UK	75	20	5



(ii) Name the Low Income Country (LIC) shown on Figure 6a.

(1)

(iii) Describe the differences in water use between the HICs shown on Figure 6a.

Use percentage (%) data in your answer.

(4)

(iv) The wealthier people in HICs use more water than poorer people in LICs.




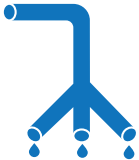
Explain why.

(4)



(b) Study Figure 6b.

It shows different methods of water management in LICs.

Water management method	Cost (£)	Amount of water produced
Providing clean spring water 	Low (£500)	Large
Treating water taken from a river or lake 	High (£100 000)	Medium
Pumping water by hand from a well 	Medium (£2000)	Medium
Water piped down a slope (gravity-fed water supply) 	High (£10 000)	Large

**Figure 6b**

(i) Rank the water supply methods by cost from the highest to lowest.

(1)

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(ii) Calculate the cost of the **two** methods which produce a large amount of water on Figure 6b.

(1)

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(iii) Define the term **appropriate technology**.

(2)

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(iv) Explain how water use is managed in HICs.

Use examples in your answer.

(4)

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\*(c) Choose a water transfer scheme you have studied.

Explain how this scheme can lead to conflict between **two** or more areas.

(6)

Chosen water transfer scheme .....

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**(Total for spelling, punctuation and grammar = 3 marks)**

**(Total for Question 6 = 28 marks)**

**TOTAL FOR SECTION B = 28 MARKS**

**TOTAL FOR PAPER = 53 MARKS**



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**Edexcel GCSE**

# **Geography A**

**Unit 2: The Natural Environment**

**Paper 2F and 2H**

Wednesday 12 June 2013 – Morning

**Resource Booklet**

Paper Reference

**5GA2F/01**

**5GA2H/01**

**Do not return the Resource Booklet with the question paper.**

## **Instructions**

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

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

*Turn over* ►

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**PEARSON**

## SECTION A – THE PHYSICAL WORLD

### Topic 1: Coastal Landscapes



(Source: Steve Daniels)

**Figure 1c**

## Topic 2: River Landscapes



(Source: Nigel Cox)

**Figure 2c**

### Topic 3: Glaciated Landscapes



(Source: With permission of Erik Henne, erikhenne.com)

**Figure 3c**

## Topic 4: Tectonic Landscapes

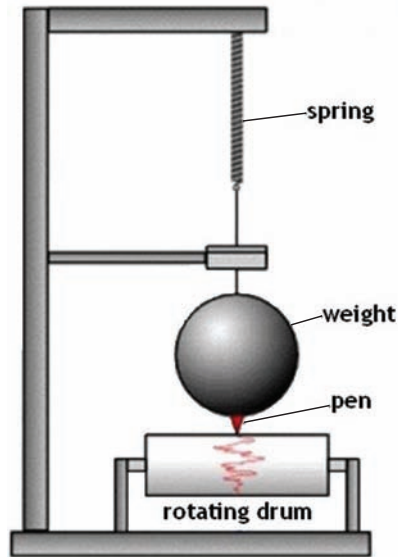


Figure 4c1

When earthquake shaking begins . . .

## Drop, Cover, and Hold



Figure 4c2

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