

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography A

Unit 2: The Natural Environment

Higher Tier

Monday 18 June 2012 – Morning

Time: 1 hour

Paper Reference

5GA2H/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 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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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 is a news article about coastal erosion on the Isle of Wight.

**The
Earthwatch Times**

Brook Green left on a cliffhanger!



Mass movement near Brook Green brought the cliff to 5 metres from the edge of the road. The coastal path was lost and the council has built traffic barriers along the roadside to alert drivers. This mass movement reduced the road to one lane with traffic lights.

Figure 1a



(i) Describe the effects of coastal erosion near Brook Green.

You should only use evidence from Figure 1a.

(3)

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(ii) A type of mass movement is shown in Figure 1a.

(1)

1. The type of mass movement is

2. Outline the process of this type of mass movement.

(2)

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(iii) Explain the factors which affect the rate of coastal recession.

(4)

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(b) Study Figure 1b.

It is a spit.

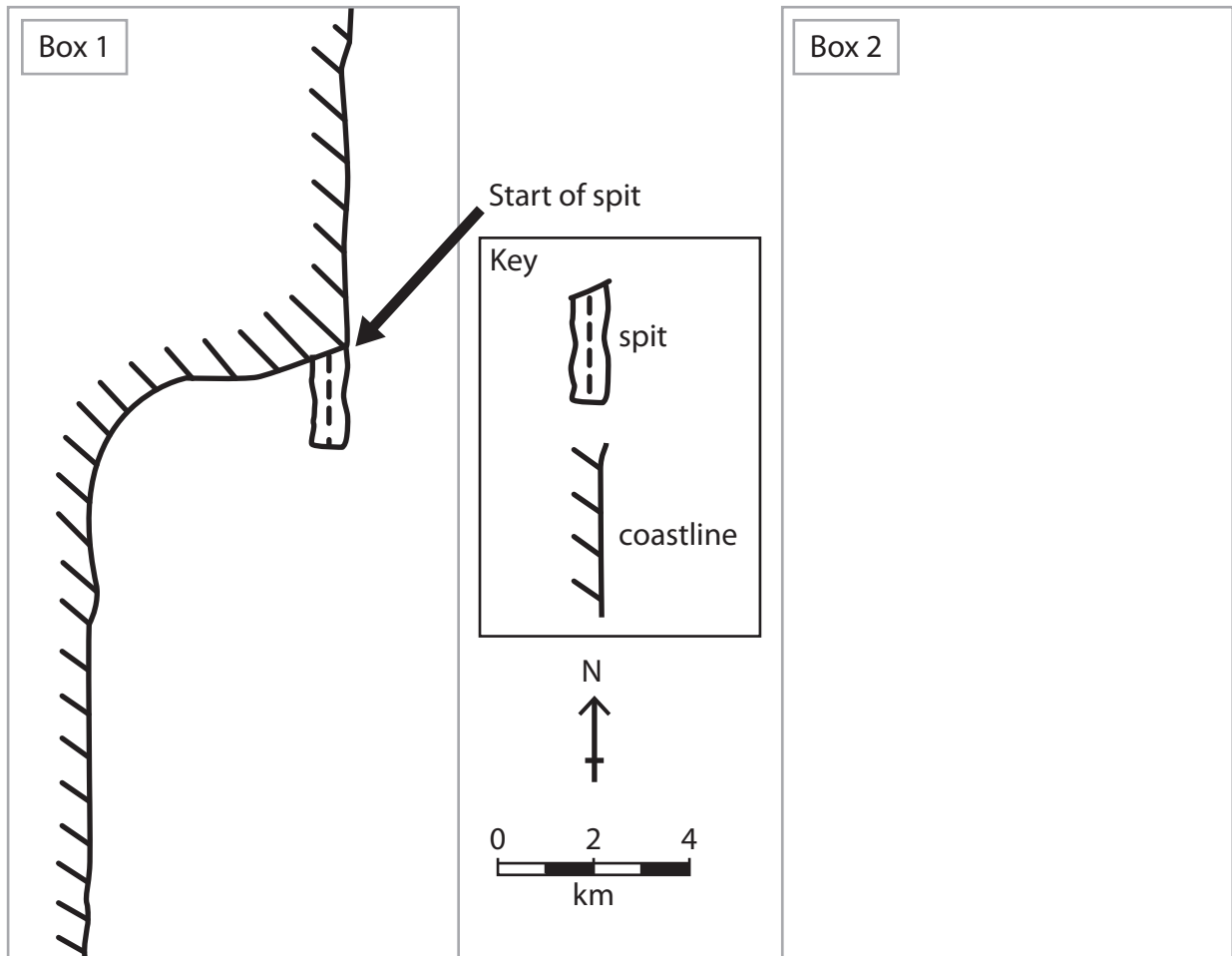


Figure 1b

(i) Describe the spit shown in Box 1.

You should only use evidence from Figure 1b.

(2)

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(ii) In Box 2 on Figure 1b draw a labelled diagram to show how the spit may change in the future.

On your diagram label the direction of longshore drift.

(3)



(c) Explain the formation of a stack.

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

(4)

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

Explain how this area of coastline is being managed.

(6)

Chosen area of coastline

(Total for Question 1 = 25 marks)



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Question 2 is on the next page



Topic 2: River Landscapes

If you answer Question 2 put a cross in this box

2 (a) Study Figure 2a.

It is a news article about flooding in Pakistan in 2010.

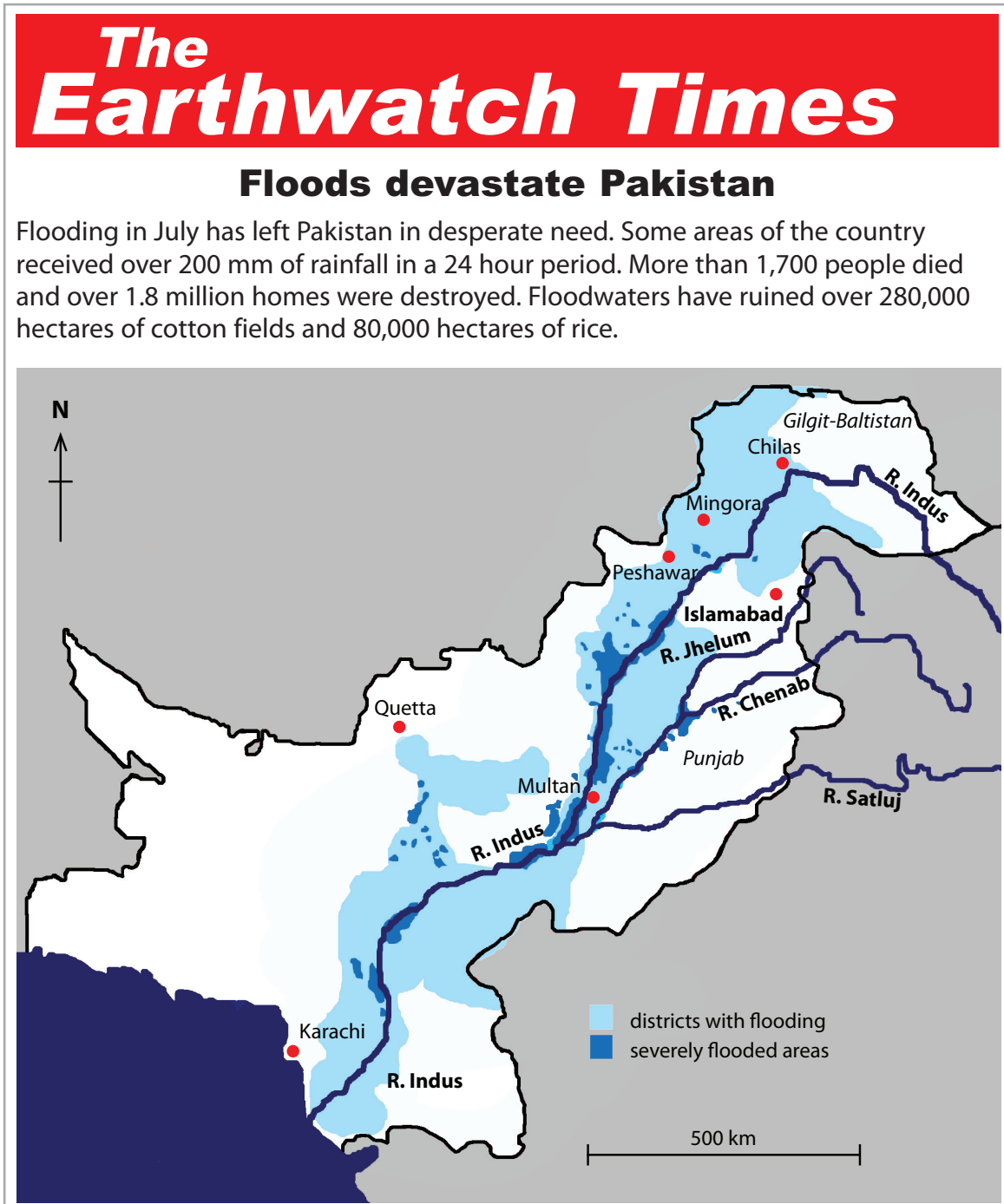


Figure 2a



(i) Describe the distribution of severely flooded areas shown in Figure 2a.

(3)

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(ii) State the main cause of this flood.

(1)

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(iii) Outline how flooding has 'ruined over 280,000 hectares of cotton fields'.

(2)

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(iv) Suggest how soft engineering methods can reduce the effects of flooding.

(4)

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(b) Study Figure 2b.

It is a meander.

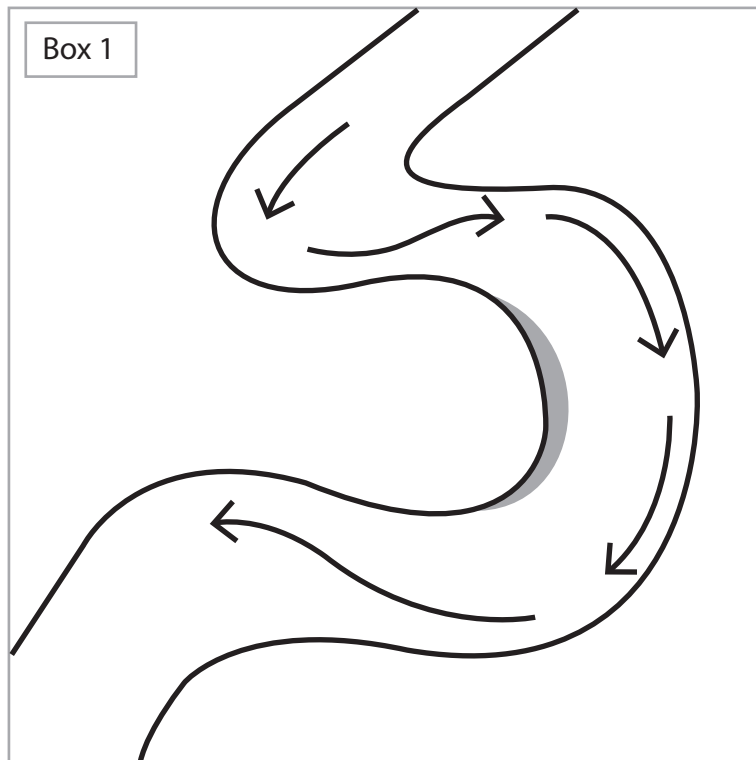


Figure 2b



(i) What do the arrows show on Figure 2b? (1)

(ii) The shaded area in Box 1 was caused by which process? (1)

(iii) In Box 2 on Figure 2b draw a labelled diagram to show how the meander may develop over time. (3)



(iv) Explain the formation of a floodplain and levees.

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

(4)

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(c) Choose a river that you have studied.
Explain how this river is being managed.

(6)

Chosen river

A series of horizontal dotted lines provided for the student to write their 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 is a news article about energy production in Iceland.

The Earthwatch Times

Iceland leads the way to being a greener land



Hydro-electric power station **Geothermal power station**

Glaciated landscapes in Iceland are used to produce energy. Hydro-electric power stations are located in remote mountainous areas on large rivers which flow from glaciers. Hydro-electric power provides over 80% of the country's electricity. Geothermal energy provides over 65% of the country's heating and ensures that the streets of Reykjavik are kept snow free. Hydro-electric and geothermal are renewable sources of energy.

Figure 3a

(i) How do the glaciated landscapes in Figure 3a provide a suitable location for hydro-electric power stations in Iceland?

(3)

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(ii) Energy production is one way people use glaciated areas.

Suggest other ways people use glaciated areas.

Use examples in your answer.

(4)

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(iii) The area circled on Figure 3a is moraine.

(3)

1. Name **one** type of moraine.

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2. Outline how it is formed.

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(b) Study Figure 3b.

It shows a corrie glacier.

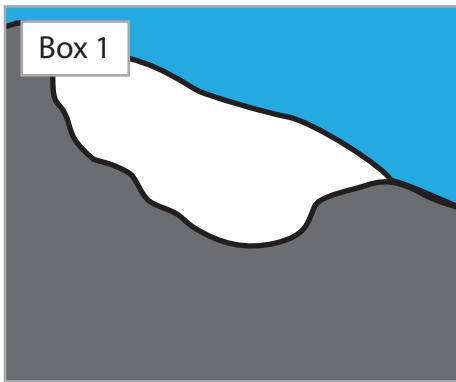


Figure 3b

(i) State **one** process of glacial erosion.

(1)

(ii) Which type of weathering would supply material to the corrie glacier?

(1)

(iii) In Box 2 draw a labelled diagram to show how the corrie may change over time on Figure 3b.

(3)



(iv) Explain the formation of truncated spurs.

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

(4)

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(c) Choose an avalanche you have studied.

Explain the cause and effects of this avalanche.

(6)

Chosen avalanche

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(Total for Question 3 = 25 marks)



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Question 4 is on the next page



Topic 4: Tectonic Landscapes

If you answer Question 4 put a cross in this box

4 (a) Study Figure 4a.

It is a news article about the 2009 earthquake in L'Aquila, Italy.



The 2009 earthquake in L'Aquila, Italy, is a reminder that if you live near active faults you are at risk. The 6.3 Magnitude earthquake was caused by the collision of the Eurasian and African plates. The shaking caused 307 deaths, made over 70,000 people homeless and the cost of the damage was an estimated 4 billion euros. This earthquake showed the need for strict building codes and education for those who live in dangerous tectonic areas.

Figure 4a



(i) Describe the effects of the earthquake shown in Figure 4a.

(3)

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(ii) State **one** cause of the earthquake.

(1)

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(iii) Outline what the Richter scale measures.

(2)

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(b) Explain why people continue to live in areas affected by volcanoes.

Use examples in your answer.

(4)

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(c) Study Figure 4b.

It shows hotspot volcanoes.

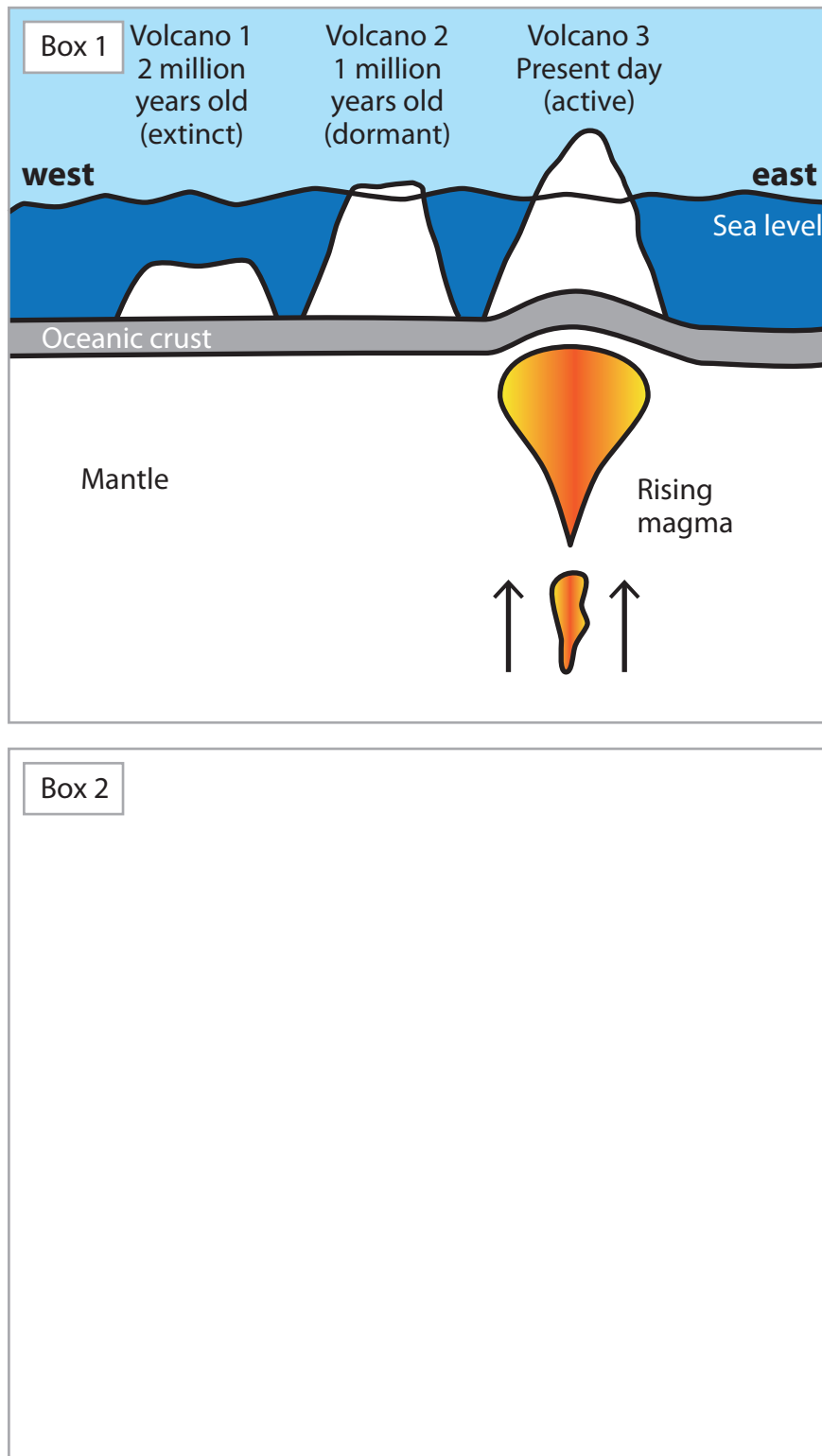


Figure 4b



(i) In which direction is the plate in Figure 4b moving? (1)

(ii) On which type of plate do hotspot volcanoes usually occur? (1)

(iii) In Box 2 on Figure 4b draw a labelled diagram to show how the chain of islands will change over time. (3)



(d) Explain the characteristic features of a divergent plate boundary.

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

(4)

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(e) Explain how the effects of earthquakes can be reduced through forecasting and building design.

Use examples in your answer.

(6)

(Total for Question 4 = 25 marks)

TOTAL FOR SECTION A = 25 MARKS



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SECTION B – ENVIRONMENTAL ISSUES

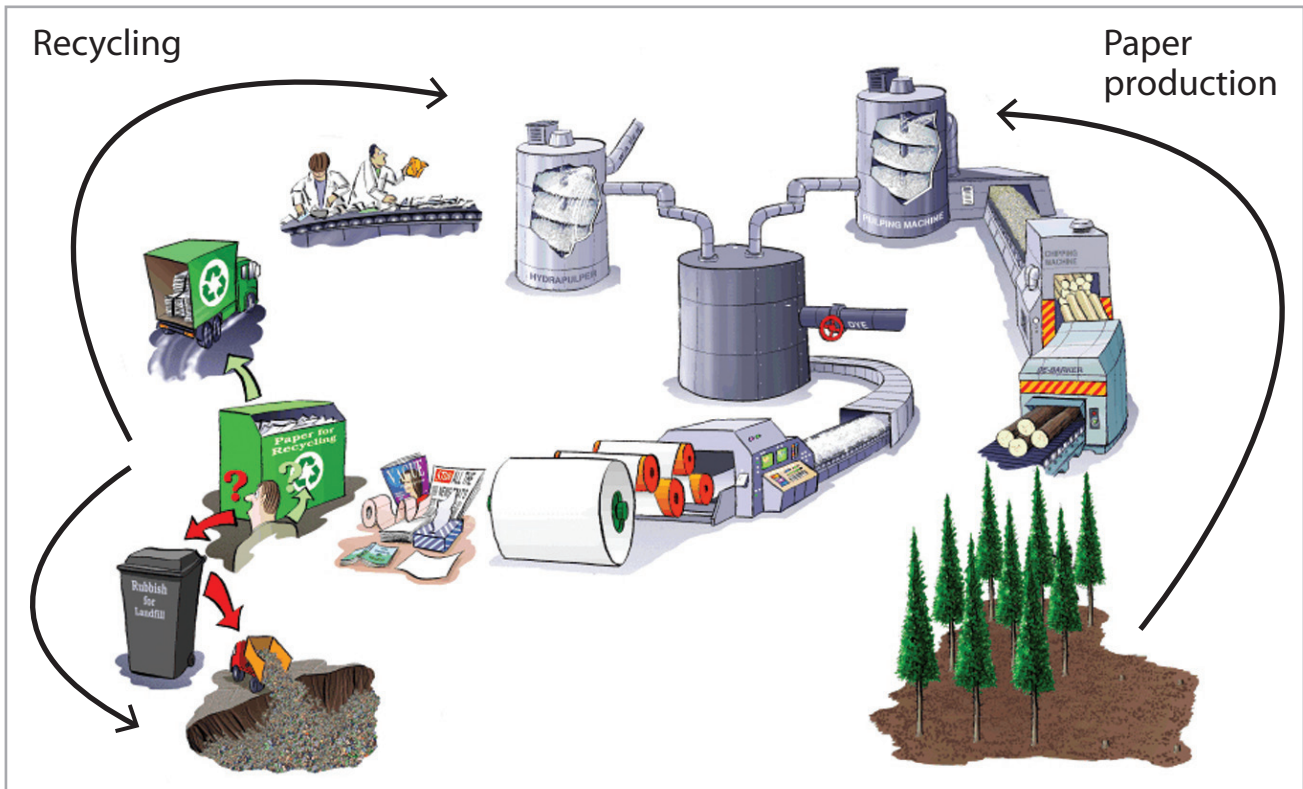
Answer either Question 5 OR Question 6.

Topic 5: A Wasteful World

If you answer Question 5 put a cross in this box

5 (a) Study Figure 5a.

It shows the process of recycling and how some recycled material has been used.



Recycled glass
is great for
road building



My story began
when I was a
plastic vending
cup



Made
from
recycled
paper

Figure 5a



(i) Identify **two** ways in which recycled products can be used.

(2)

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(ii) Suggest how recycling can reduce deforestation.

Use evidence from Figure 5a.

(3)

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(iii) Choose an example of a local scale recycling scheme you have studied.

Explain how its waste material is recycled.

(4)

Chosen local recycling scheme

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(b) Study Figure 5b.

It shows energy use per person in different regions.

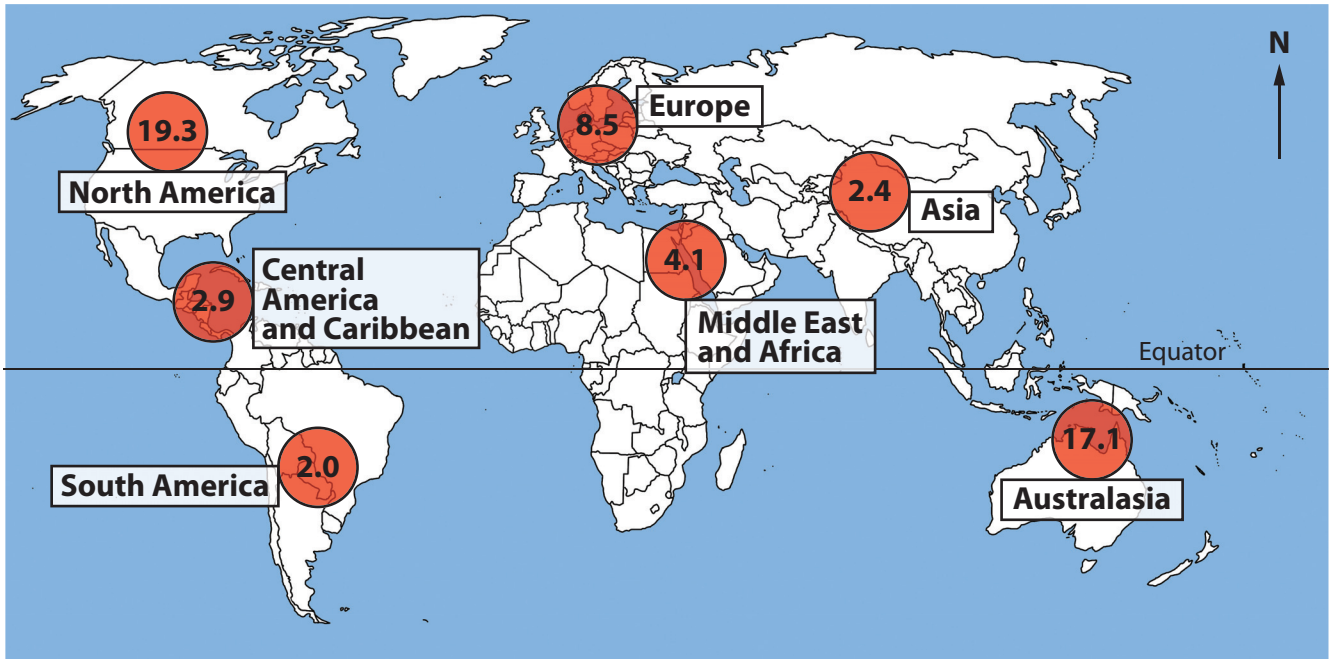


Figure 5b

(i) Describe the distribution of energy use per person.

Use energy use data in your answer.

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(ii) Define the term **non-renewable energy**.

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(iii) Explain the advantages and disadvantages of renewable energy.

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* (c) Explain how energy wastage in the home (domestic) can be reduced.

(6)

A series of horizontal dotted lines for writing the answer.

(Total for Question 5 = 25 marks)



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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

6 (a) Study Figure 6a.

It is a cartoon about water supply problems in Low Income Countries (LICs).

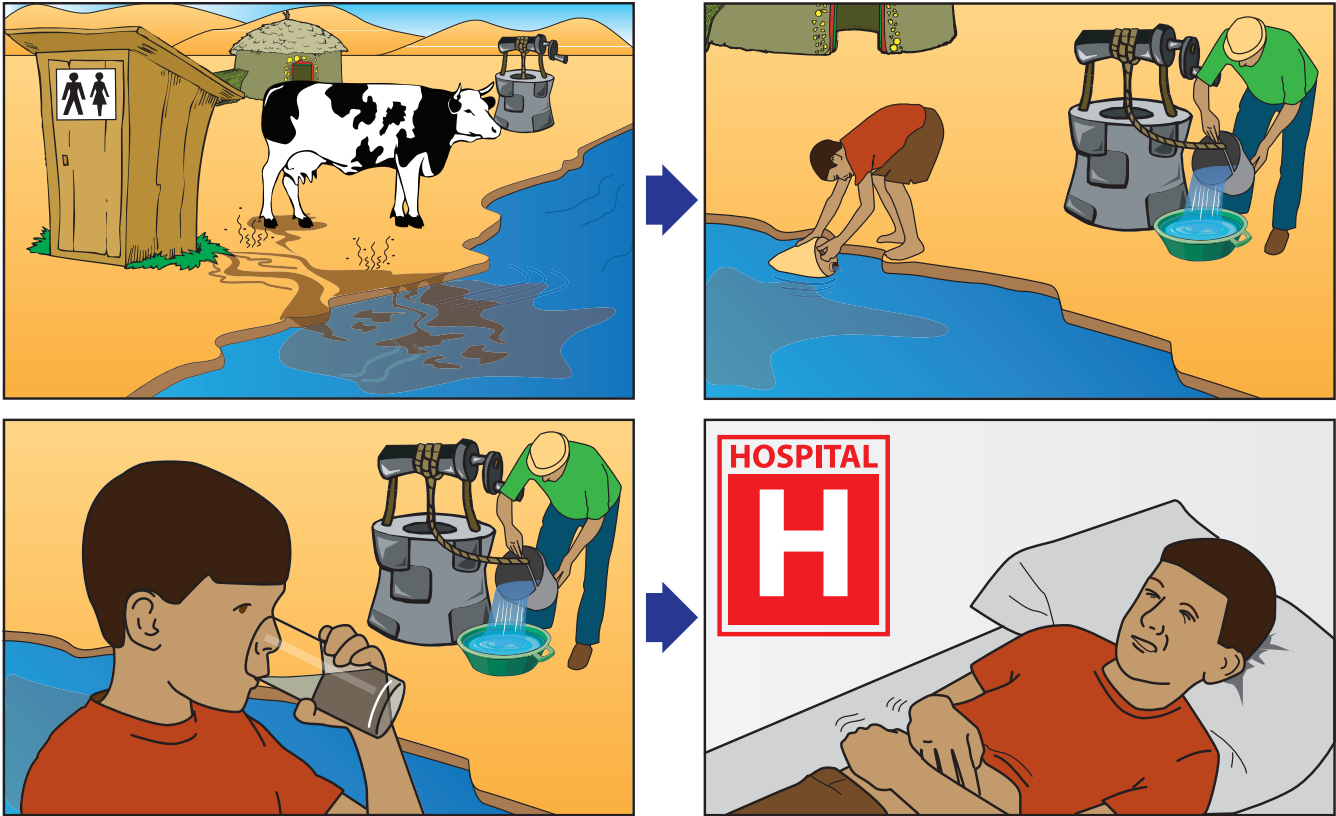


Figure 6a

(i) What messages is the cartoon showing about water supply problems in LICs?

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(ii) Name **two** water-borne diseases.

(2)

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(iii) Explain how appropriate technology can improve water supply in small communities in LICs.

Use examples in your answer.

(4)

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(b) Study Figure 6b.

It shows water surplus and deficit areas in Spain, a High Income Country (HIC).

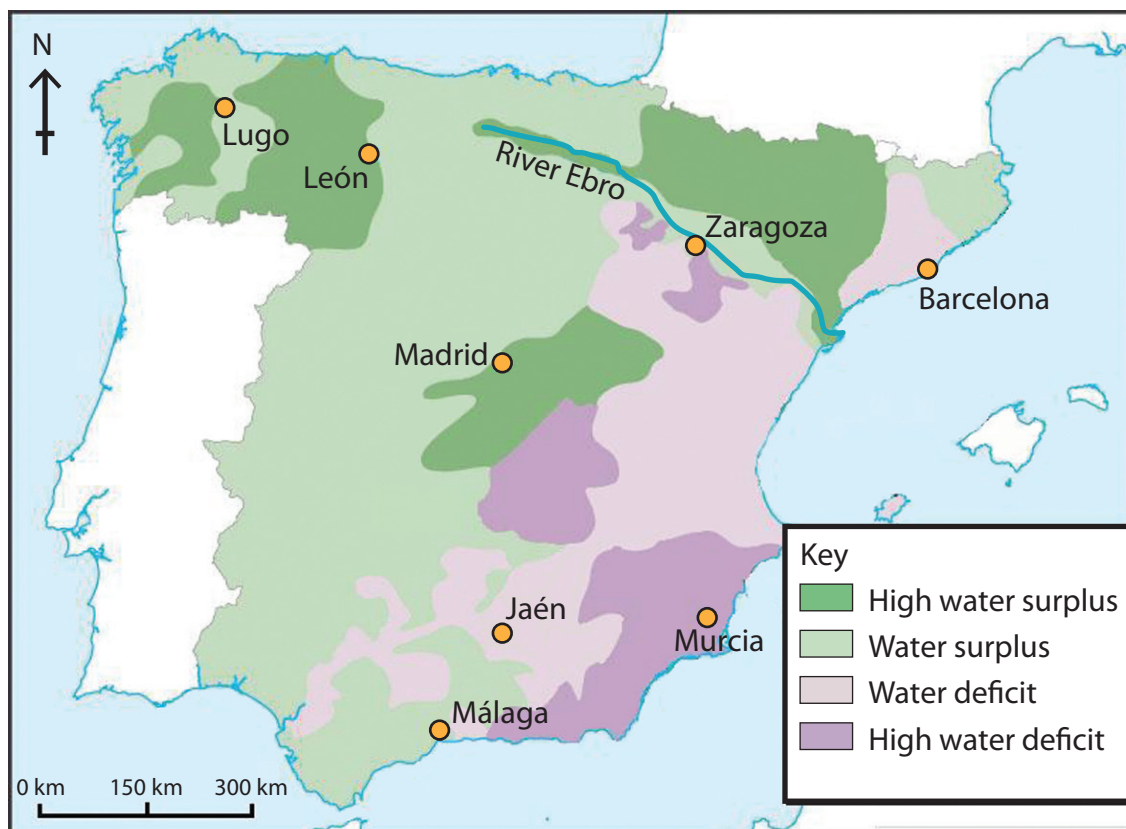


Figure 6b

(i) Name **one** city in an area with a high water deficit shown on Figure 6b.

(1)



(ii) Describe the distribution of water surplus and deficit shown in Figure 6b.
Use evidence from Figure 6b in your answer.

(4)

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(iii) Explain how the demands of the leisure and tourism industry can lead to water shortages in HICs.

(4)

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

Explain the positive and negative effects (impacts) of this scheme on people.

(6)

Chosen scheme

(Total for Question 6 = 25 marks)

TOTAL FOR SECTION B = 25 MARKS
TOTAL FOR PAPER = 50 MARKS

