

Please write clearly in block capitals.

Centre number

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Candidate number

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Forename(s) _____

Candidate signature _____

I declare this is my own work.

INTERNATIONAL GCSE GEOGRAPHY

Paper 1 Living with the Physical Environment

A

Friday 28 October 2022 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions in **Sections A, B and C**.
- Answer **one** question from **Section D**, **either** Question 4 **or** Question 5.
- You must answer the questions in the spaces provided.
Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	



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Section A – The challenge of natural hazards

Answer **all** questions in the spaces provided.

You must answer **all** questions in this section.

For the multiple-choice questions, shade the circle next to the correct answer.

CORRECT METHOD



WRONG METHODS



If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

0 1 . 1

Give **two** factors that increase the risk from natural hazards.

[2 marks]

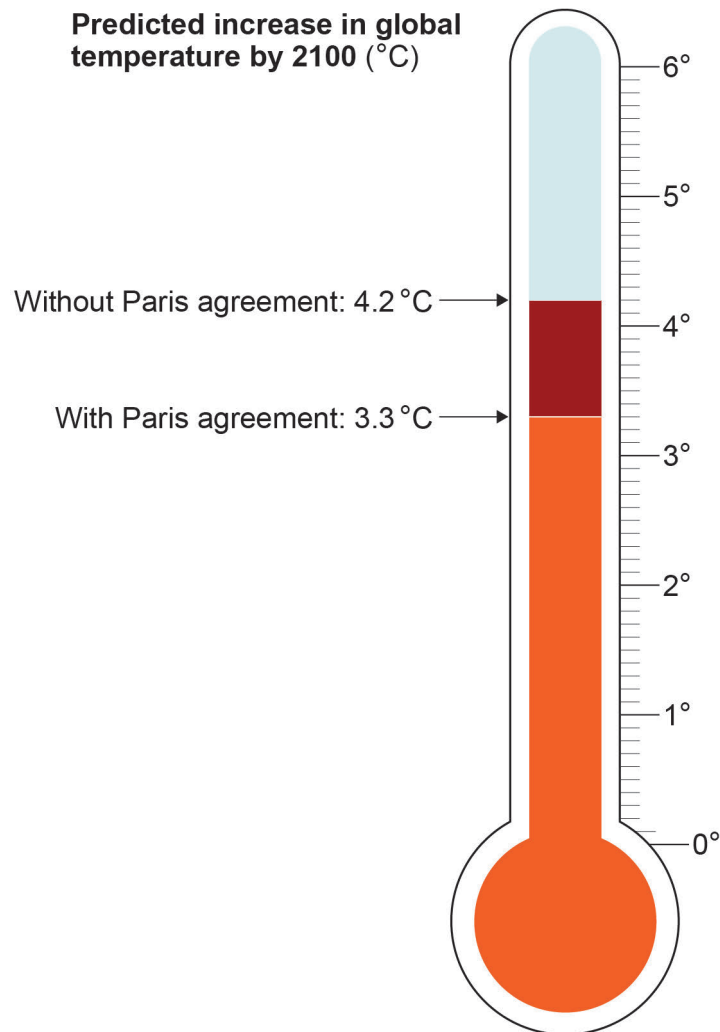
1 _____

2 _____



Study **Figure 1**, a diagram showing the possible impact of the Paris agreement on global temperatures.

Figure 1



0 1 . 2

Calculate by how much more global temperatures will increase without the Paris agreement than with the Paris agreement as shown in **Figure 1**.

[1 mark]

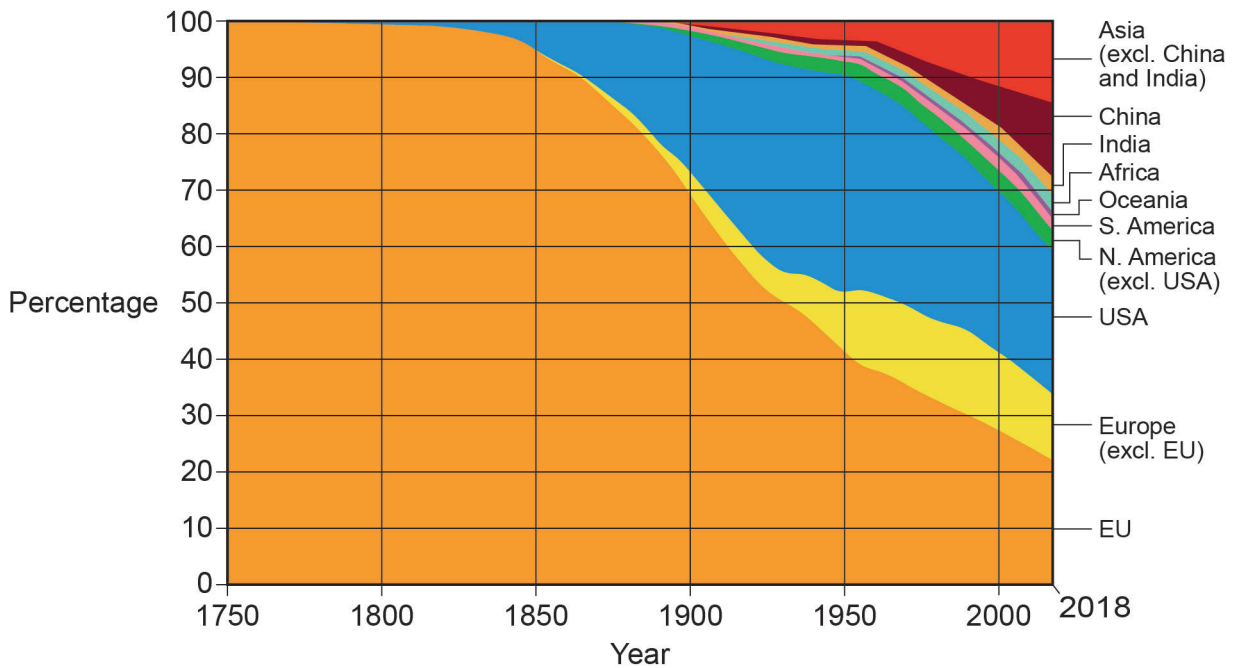
Question 1 continues on the next page

Turn over ►



Study **Figure 2**, a graph showing the percentage of carbon dioxide (CO₂) emissions by world region.

Figure 2



0 1 . 3 What percentage of the global carbon dioxide emissions was from the USA in 1950?

Shade **one** circle only.

[1 mark]

A 26%

☐

B 40%

☐

C 55%

☐

D 90%

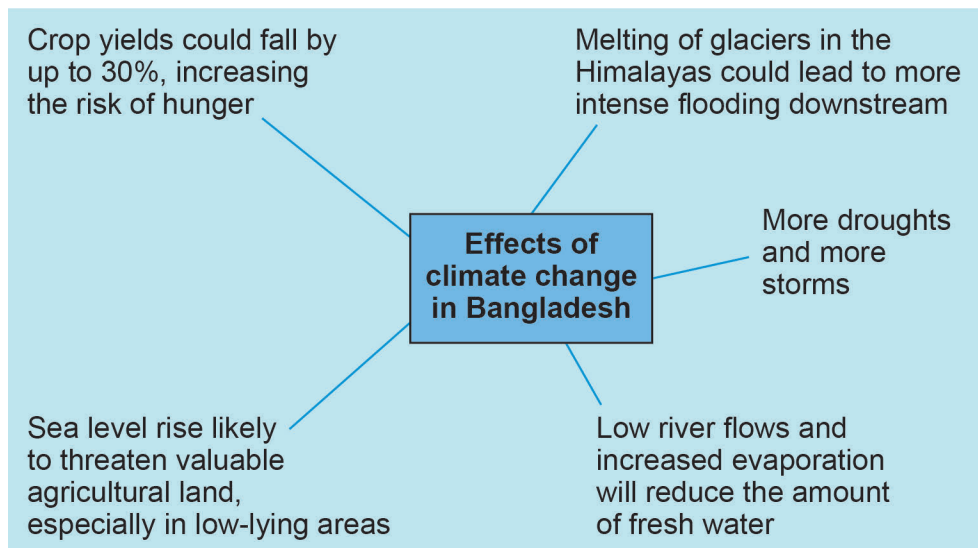
☐

0 1 . 4 Outline the trend in European Union (EU) percentage share of carbon dioxide emissions between 1750 and 2018 shown in **Figure 2**.

[2 marks]



Figure 3



'The impacts of climate change are more severe on the environment than on people.'

[6 marks]

[illegible]

Turn over ►



0 1 . 6 Give **two** differences between continental and oceanic crust.

[2 marks]

1 _____

2 _____

Study **Table 1**, showing the magnitude and depth of focus of selected earthquakes at different types of plate margin.

Table 1

Type of plate margin	Location of earthquake	Year	Magnitude (Richter scale)	Depth of focus (km)
Destructive	Japan	2011	9.0	24
Constructive	Turkey	2015	5.1	5
Destructive	Nepal	2015	7.9	13
Constructive	Iceland	2019	4.6	10
Constructive	Democratic Republic of the Congo	2019	5.1	10
Constructive	USA	2019	7.1	8
Destructive	Peru	2019	8.0	123

0 1 . 7 State the median magnitude of the earthquakes shown in **Table 1**.

[1 mark]

0 1 . 8 Use **Table 1** to state **one** fact about the magnitude of earthquakes linked to different plate margins.

[1 mark]



0 1 . 9

Use **Table 1** to state **one** fact about the focus depth linked to different plate margins.**[1 mark]**

0 1 . 1 0

Explain why earthquakes occur at destructive plate margins.

[4 marks]

Question 1 continues on the next page**Turn over ►**

[9 marks]

[illegible]

Turn over for the next section

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ANSWER IN THE SPACES PROVIDED**

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Section B – The living world

Answer **all** questions in the spaces provided.

You must answer **all** questions in this section.

0 2 . 1 How much precipitation falls in a hot desert area each year?

Shade **one** circle only.

[1 mark]

A Less than 250 mm

☐

B 250 mm – 499 mm

☐

C 500 mm – 750 mm

☐

D More than 750 mm

☐

0 2 . 2 Give **two** characteristics of plants in hot desert areas.

[2 marks]

1 _____

2 _____



Study **Figure 4**, a photograph of a fennec fox in a hot desert area.

Figure 4



0 2 . 3 Explain how animals adapt to physical conditions in a hot desert area.

Use **Figure 4** and your own understanding.

[4 marks]

Question 2 continues on the next page

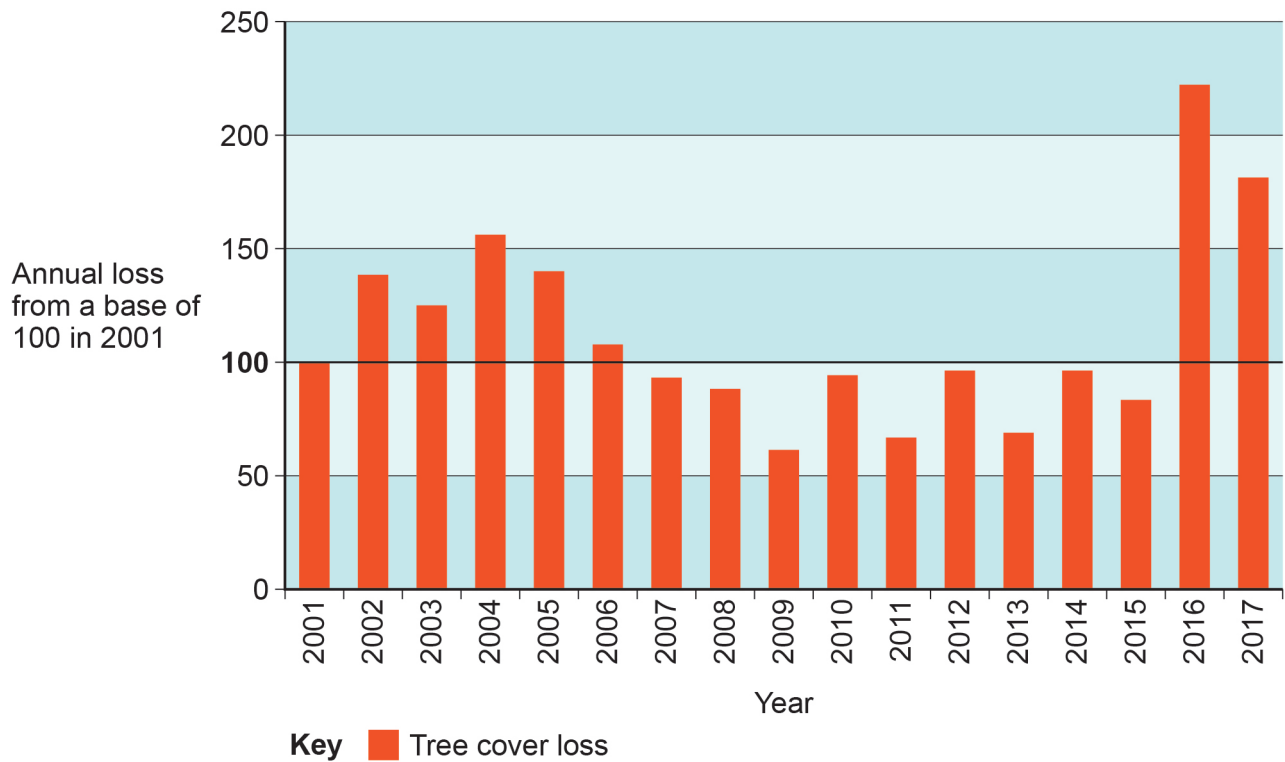
Turn over ►



Study **Figure 5**, a graph showing the rate of tree cover loss in the Brazilian Amazon rainforest from 2001 to 2017.

The rates are based on tree cover loss in 2001.

Figure 5



0 2 . 4 State **two** facts about the loss of tree cover shown in **Figure 5**.

[2 marks]

1 _____

2 _____



Study **Table 2**, showing the loss of tree cover in Amazon rainforest countries from 2010 to 2019.

Table 2

Country	Loss of tree cover (% of total for 9 countries)
Bolivia	11.2
Brazil	74.4
Colombia	4.1
Ecuador	0.9
French Guiana	0.1
Guyana	0.5
Peru	7.0
Suriname	0.5
Venezuela	1.3

0 2 . 5 Calculate the inter-quartile range (IQR) for the countries shown in **Table 2**.

[2 marks]

Upper quartile (UQ) _____

Lower quartile (LQ) _____

IQR _____

Question 2 continues on the next page

Turn over ►



[9 marks]

[illegible]



Section C – Physical landscapes**Coastal landscapes**

You must answer **all** questions in this section.

0	3	.	1
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Outline the process of longshore drift.

[2 marks]

Question 3 continues on the next page

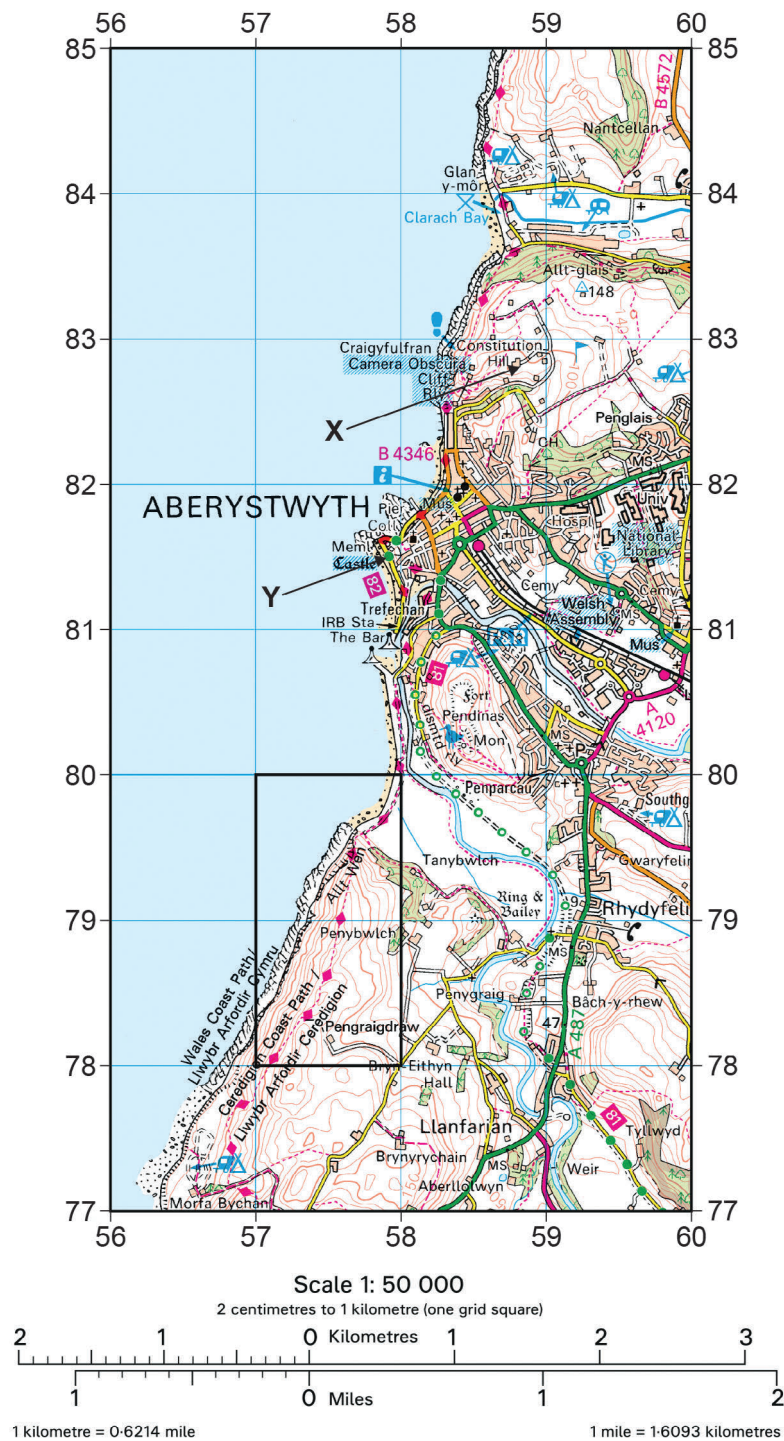
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Study **Figure 6**, an Ordnance Survey map extract of a coastal area in central Wales.

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Figure 6



03.2

What is the direction of Constitution Hill (X) from the Castle (Y)?

[1 mark]

03.3

What is the straight line distance between Constitution Hill (X) and the Castle (Y)?

[1 mark]

03.4

Identify the physical feature found at 586838.

[1 mark]

03.5

Explain how erosion processes have shaped the coastal landforms in grid squares 5778 and 5779 (emboldened on **Figure 6**).Use **Figure 6** and your own understanding.

[4 marks]

Question 3 continues on the next page

Turn over ►



Study **Figure 7**, a photograph showing a soft engineering technique of coastal management.

Figure 7



Explain how soft engineering techniques protect coastlines from the effects of physical processes.

[6 marks]

[illegible]

15

Turn over for the next section

Turn over ►



Section D – Physical landscapes

Hot desert landscapes or River landscapes

You must answer **one** question from this section, **either** Question 4 **or** Question 5.

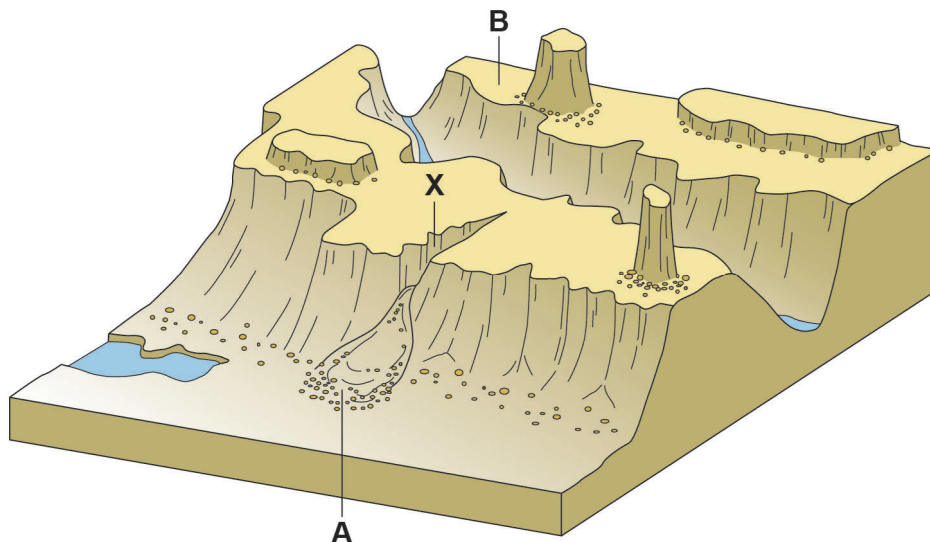
Question 4 Hot desert landscapes

0 4 . 1 Give **one** reason why wind deposits sediment.

[1 mark]

Study **Figure 8**, a diagram showing landforms resulting from water processes.

Figure 8



0 4 . 2 Describe **either** landform **A** or landform **B** shown in **Figure 8**.

[2 marks]

Chosen landform: _____



0	4	.	3
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Explain the role of water in forming landform **X** on **Figure 8**.

Use **Figure 8** and your own understanding.

[4 marks]

0	4	.	4
---	---	---	---

Outline how extreme temperatures are a challenge to developing hot desert environments.

[2 marks]

Question 4 continues on the next page

Turn over ►



[6 marks]

15



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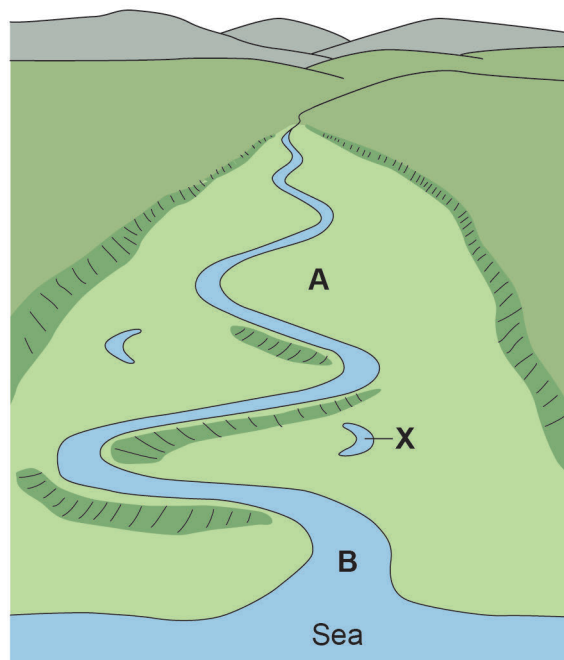


Question 5 River landscapes

0 5 . 1 Give **one** reason why rivers deposit sediment.

[1 mark]

Study **Figure 9**, a diagram showing river landforms in a lowland area.

Figure 9

0 5 . 2 Describe **either** landform **A** or landform **B** shown in **Figure 9**.

[2 marks]

Chosen landform: _____



0 5 . 3 Explain the role of erosion and deposition in forming landform **X** on **Figure 9**.

Use **Figure 9** and your own understanding.

[4 marks]

0 5 . 4 Outline how river straightening reduces flood risk.

[2 marks]

Question 5 continues on the next page

Turn over ►



'River flood management schemes always cause social, economic and environmental issues.'

Use an example in your answer.

[6 marks]

[illegible]

15

END OF QUESTIONS



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[illegible]

[illegible]

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