

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL GCSE GEOGRAPHY

Paper 1 Living with the Physical Environment

Tuesday 22 October 2024 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.

0 1 . 1 Give **one** example of a natural hazard.

[1 mark]

0 1 . 2 State **one** factor that affects natural hazard risk.

[1 mark]

Question 1 continues on the next page

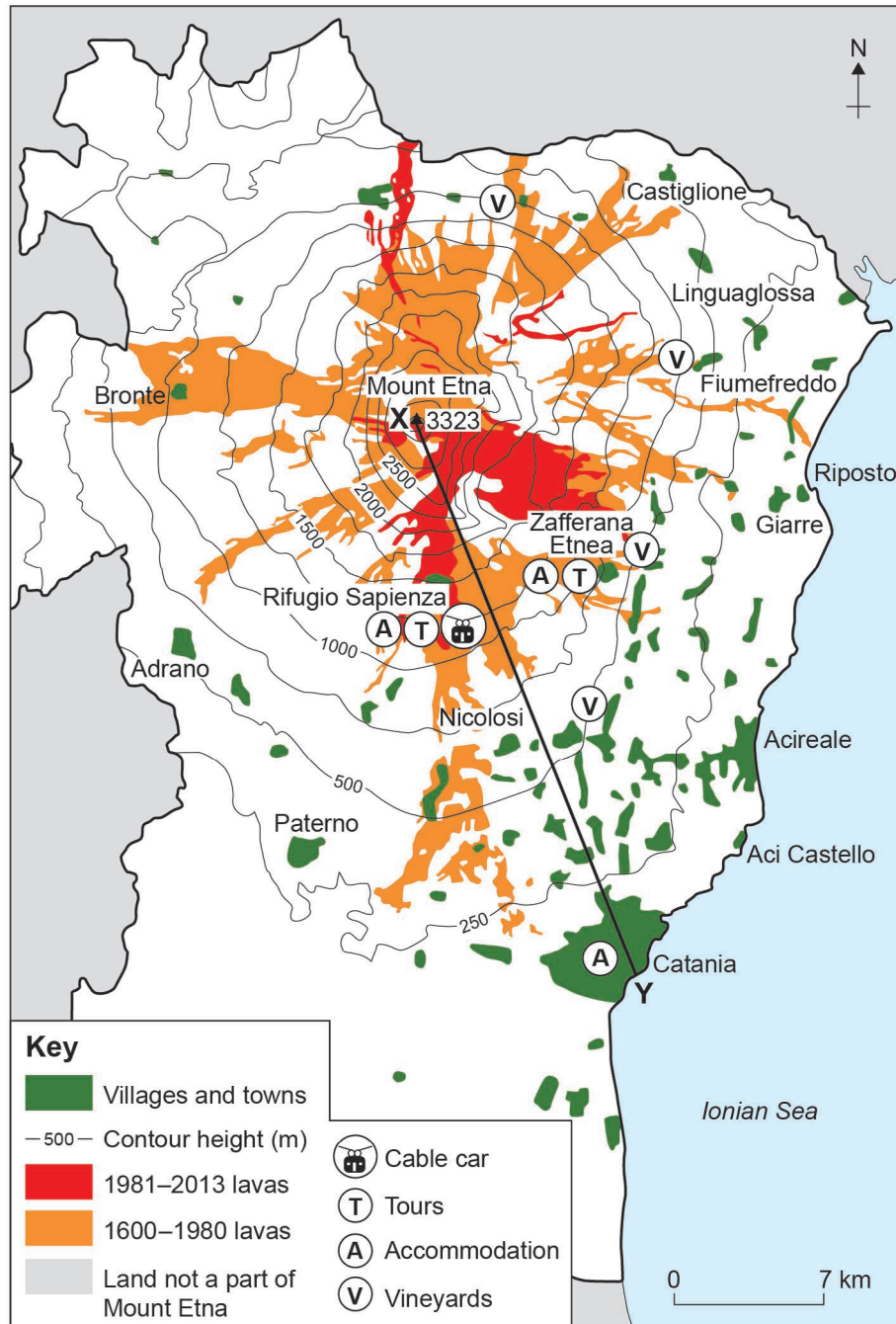
Turn over ►



Study **Figure 1**, a map showing Mount Etna, an active volcano in Sicily.

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Figure 1



0 1 . 3

Describe the relief (height and gradient) of Mount Etna shown in **Figure 1**.**[2 marks]**

0 1 . 4

State **two** facts about the 1981–2013 lavas shown in **Figure 1**.**[2 marks]**

1

2

0 1 . 5

What is the straight line distance from the summit of Mount Etna (**X**) to the urban area of Catania (**Y**)?**[1 mark]**

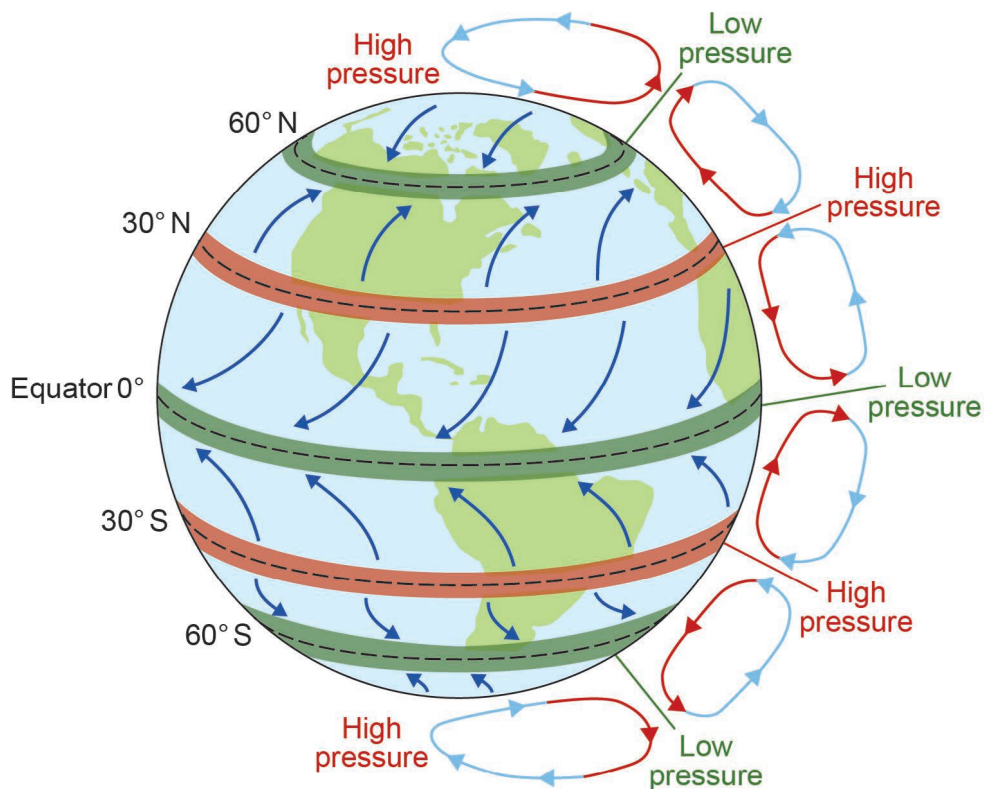
 km**Question 1 continues on the next page****Turn over ►**

[6 marks]

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Study **Figure 2**, a diagram showing the global atmospheric circulation.

Figure 2



Key

Blue arrows on globe	
	Surface winds
Cells	
	Warm air
	Cold air

0 1 . 7 Use **Figure 2** to complete the following paragraph.

[2 marks]

Air rises at the Equator in an area of low pressure. The air then cools and sinks in areas of about _____ ° north and south of the Equator.

This creates an area of _____ pressure.

Question 1 continues on the next page

Turn over ►



0 1 . 8

Explain how protection can reduce the effects of tropical storms.

[4 marks]

0 1 . 9

What is meant by 'climate change'?

[2 marks]



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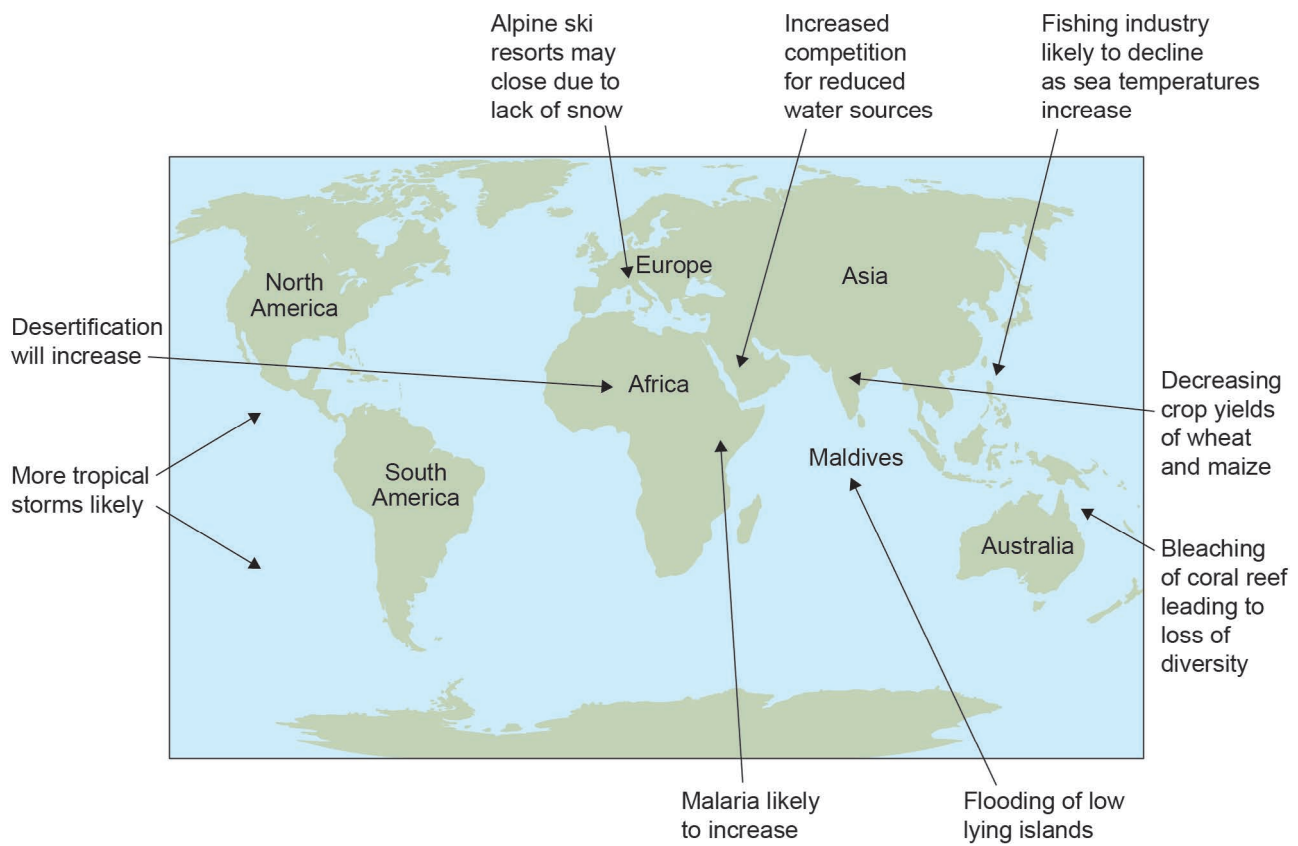
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0 9

Study **Figure 3**, a map showing selected impacts of climate change on people and the environment.

Figure 3



To what extent are the effects of climate change greater on the environment than on people?

[9 marks]

[illegible]

30

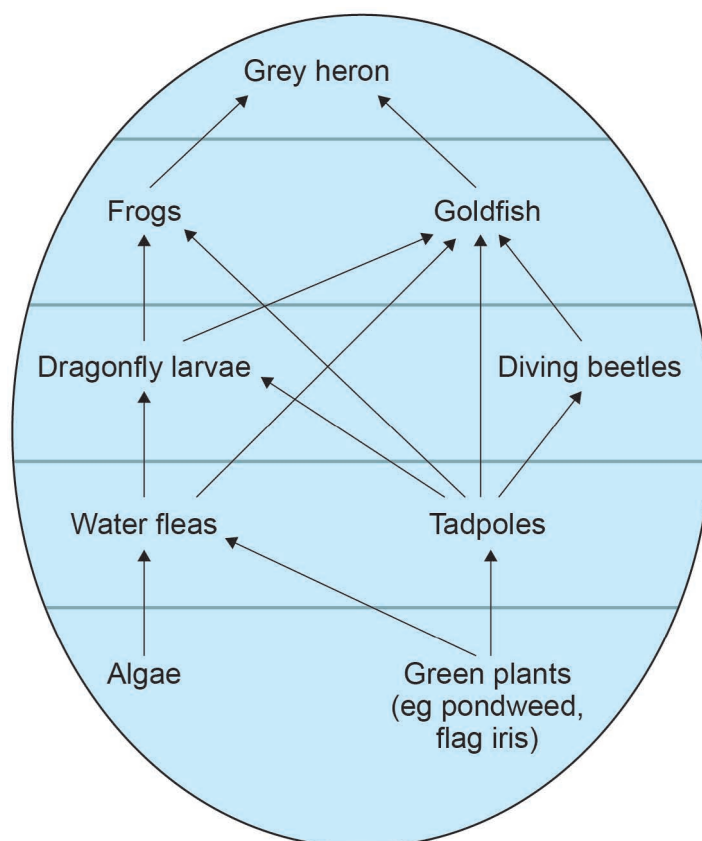
Section B – The living world

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

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

Study **Figure 4**, a diagram showing a small-scale pond ecosystem.

Figure 4



0 2 . 1 Identify **one** producer shown in **Figure 4**.

[1 mark]



0	2	.	2
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Suggest **two** effects of a reduction in diving beetles on the pond ecosystem shown in **Figure 4**.

[2 marks]

1 _____

2 _____

Question 2 continues on the next page

Turn over ►



Study **Table 1**, showing the climate in an area of tropical rainforest in Libreville, Gabon, Africa.

Table 1

Month	Temperature (°C)	Precipitation (mm)
January	29.5	250
February	30.0	243
March	30.2	363
April	30.1	339
May	29.4	247
June	27.6	54
July	26.4	7
August	26.8	14
September	27.5	104
October	28.0	427
November	28.4	490
December	29.0	303

0 2 . 3 Calculate the mean temperature in Libreville between May and August.

[1 mark]

_____ °C

0 2 . 4 Calculate the range in precipitation throughout the year in Libreville.

[1 mark]

_____ mm



0 2 . 5

Outline the likely effect of climate on plants in an area of tropical rainforest.

[2 marks]

0 2 . 6

Explain why there is concern about the loss of biodiversity in tropical rainforests.

[4 marks]

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[9 marks]

[illegible]

20

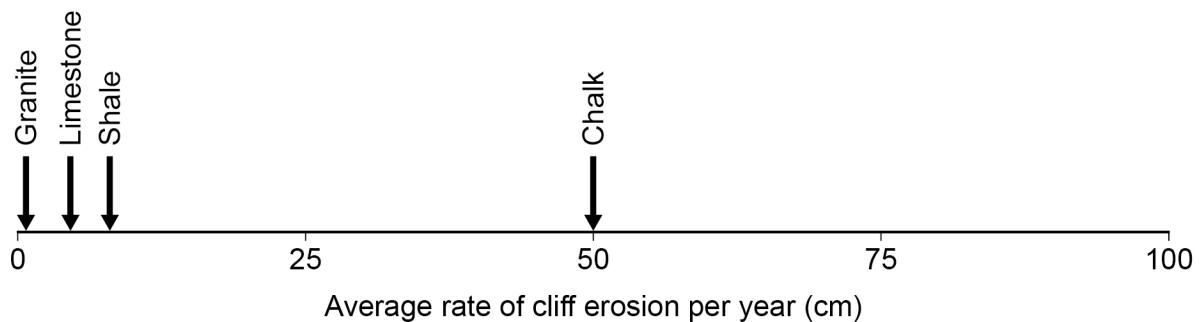


Section C – Physical landscapes**Coastal landscapes**

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

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

Study **Figure 5**, a diagram showing the average rate of cliff erosion per year for different rock types.

Figure 5

0 3 . 1 Which rock type erodes the fastest in **Figure 5**?

[1 mark]

0 3 . 2 Suggest **one** reason for the different rates of erosion shown in **Figure 5**.

[2 marks]

Question 3 continues on the next page

Turn over ►



0	3	.	3
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Outline **one** difference between chemical and mechanical weathering.

[2 marks]

0	3	.	4
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Explain how mangroves can protect the coast from the effects of physical processes.

[4 marks]



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Study **Figure 6**, a photograph showing a coastal landform in Turkey.

Figure 6



0	3	.	5
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Explain how physical processes have formed the depositional landform shown in **Figure 6**.

[6 marks]

[illegible]

15

Turn over for the next section

Turn over ►



Section D – Physical landscapes**Hot desert landscapes or River landscapes**

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

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

Question 4 – Hot desert landscapes

Study **Table 2**, showing wind transportation processes and particle size.

Table 2

Process	Particle size (mm)
Suspension	0.0–0.14
Saltation	0.15–0.25
Surface creep	0.26 and above

0 4 . 1

State the process that would transport a particle of 0.21 mm.

[1 mark]

0 4 . 2

Give **one** reason why surface creep transports particles of 0.26 mm and above.

[1 mark]



Question 4 continues on the next page

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Study **Figure 7**, a photograph of a hot desert area in China.

Figure 7



0 4 . 3 Describe the features of the hot desert area labelled in **Figure 7**.

[3 marks]

A _____

B _____

C _____



0 4 . 4

Explain the role of the wind in the formation of the yardangs shown in **Figure 7**.**[4 marks]**

0 4 . 5

'Hot desert environments provide opportunities for the development of tourism.'

Discuss this statement using an example you have studied.

[6 marks]

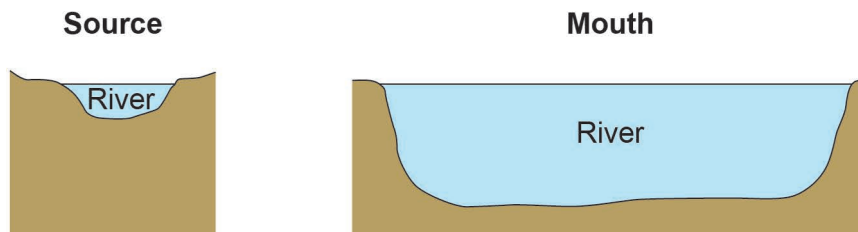
15

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Question 5 – River landscapes

Study **Figure 8**, a diagram showing the cross profile of a river channel near the source and the mouth.

Figure 8



0 5 . 1

State **one** difference between the cross profiles of the river channels shown in **Figure 8**.

[1 mark]

0 5 . 2

Give **one** reason for the difference.

[1 mark]

Question 5 continues on the next page

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2 5

Study **Figure 9**, a photograph of an estuary in the lower course of a river valley in Spain.

Figure 9



0 5 . 3 Describe the features of the estuary labelled in **Figure 9**.

[3 marks]

A _____

B _____

C _____



0 5 . 4

Explain the role of deposition in the formation of the estuary shown in **Figure 9**.

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

[4 marks]

0 5 . 5

Use an example of a flood management scheme to discuss why the scheme was required.

[6 marks]

15

END OF QUESTIONS



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