



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.

A-level GEOGRAPHY

Paper 1 Physical geography

Tuesday 13 May 2025

Morning

Time allowed: 2 hours 30 minutes

Materials

For this paper you must have:

- the colour insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions in Section A.
- Answer **either** Question 2 **or** Question 3 **or** Question 4 in Section B.
- Answer **either** Question 5 **or** Question 6 in Section C.
- 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 additional extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 120.

For Examiner's Use	
Section	Mark
A	
B	
C	
TOTAL	



J U N 2 5 7 0 3 7 1 0 1

G/KL/Jun25/G4006/E5

7037/1

Section A**Water and carbon cycles**

Answer **all** questions in this section.

0 1 . 1 Outline characteristic features of a drainage basin.

[4 marks]

Extra space _____



Figure 1 shows the projected cumulative changes in greenhouse gas emissions by selected countries and groups of countries from 2015 to 2030.

[6 marks]

[illegible]

Turn over ►



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Figure 2 is in the insert.

Figure 2 shows a simplified sustainable water supply system in north-east Ohio, USA.

0 1 . 3

Using **Figure 2** and your own knowledge, assess the relative importance of physical and human factors in achieving a sustainable water supply.

[6 marks]

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Analyse factors driving change in the magnitude of carbon stores in a tropical rainforest that you have studied.

[illegible]

[illegible]

36

End of Section A

Turn over for Section B

Turn over ►



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ANSWER IN THE SPACES PROVIDED**



Answer **either** Question 2 **or** Question 3 **or** Question 4.

[4 marks]

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Question 2 continues on the next page

Figure 3 shows mean annual precipitation and mean annual temperature in central Chile.

Using **Figure 3**, analyse the relationship between annual precipitation and temperature in central Chile.

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Figure 4 shows progress in the development of the Great Green Wall reforestation scheme in the Sahel region of Africa.

Using **Figure 4** and your own knowledge, assess the challenges in responding to desertification.

[illegible]

Extra space _____

Turn over ►



To what extent do you agree that weathering is the most important geomorphological process shaping desert landscapes?

[illegible]

[illegible]

36

End of Question 2



0 3 . 1 Outline processes leading to the formation of sand dunes.

[illegible]

Extra space _____

Turn over ►



Figure 5 shows risk in the year 2100 under different sea level rise and human response scenarios in four types of coastal locations.

Analyse the information shown in **Figure 5**.

[6 marks]

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Figure 6 shows five steps of an integrated flood management plan aimed at reducing risk of coastal flooding.

Using **Figure 6** and your own knowledge, assess the sustainability of management strategies in reducing risk of coastal flooding.

[illegible]

Extra space _____

Turn over ►



With reference to **one or more** coastal environment(s) that you have studied, analyse factors and processes leading to the development of a high energy, erosional coastal landscape.

[illegible]

[illegible]

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End of Question 3



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[4 marks]

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Question 4 continues on the next page



Figure 7 shows permafrost temperature variation in interior Alaska compared to northern Alaska from 1978 to 2020.

Analyse the data shown in **Figure 7**.

[6 marks]

[illegible]

Extra space _____



Figure 8 shows the impact on alpine tundra of a changing climate in Europe.

Using **Figure 8** and your own knowledge, assess the challenges that climate change is likely to pose in these alpine tundra regions.

[6 marks]

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Question 4 continues on the next page

Turn over ►



With reference to a glaciated landscape that you have studied, to what extent has erosion been the dominant process shaping the landscape?

[illegible]

[illegible]

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End of Question 4

End of Section B



Answer **one** question in this section.

Answer **either** Question 5 **or** Question 6.

05.1 Outline processes involved in the formation of island arcs.

[4 marks]

Extra space _____

Question 5 continues on the next page

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Figure 9 shows the probabilities of an earthquake greater than magnitude 6.7 (Richter Scale) in California and the probability of different magnitude events over a 30-year period.

[6 marks]

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Figure 10 is in the insert.

Figure 10 shows information about the impacts of Tropical Storm Megi in the Philippines in 2022.

0	5	.	3
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Using **Figure 10** and your own knowledge, assess the challenges in responding to an event such as this.

[9 marks]

[illegible]

Extra space _____

Turn over ►



[9 marks]



Extra space _____

0 5 . 5

Assess the future prospects for sustainable human occupation of a multi-hazardous environment that you have studied.

[20 marks]

Turn over ►



[illegible]

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Extra space _____

End of Question 5

Turn over ►



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0	6	.	1	Outline the concept of climatic climax.
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[illegible]

Extra space _____

Turn over ►



Figure 11 shows the amount of organic carbon stored in different parts of various world biomes.

Analyse the data shown in **Figure 11**.

[6 marks]

[illegible]

Extra space _____



Assess the potential impact of climate change upon people living in savanna grasslands.

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Extra space _____

0 6 . 5

With reference to a coral reef that you have studied, assess the sustainability of human activity within the area.

[20 marks]

Turn over ►



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END OF QUESTIONS



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[illegible]

