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I declare this is my own work.

# A-level GEOGRAPHY

## Paper 1 Physical Geography

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	
<b>TOTAL</b>	



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

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**7037/1**

**Section A****Water and carbon cycles**Answer **all** questions in this section.**0 1 . 1**

Outline the relationship between the water cycle and the carbon cycle in the atmosphere.

**[4 marks]**


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**Figure 1** is in the insert.

**Figure 1** shows the impact of different rates of deforestation and afforestation upon land surface temperature (LST) at different latitudes. The data was collected between 2000 and 2011.

**0 1 . 2**

Analyse the data shown in **Figure 1**.

**[6 marks]**

[illegible]

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**Question 1 continues on the next page**

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**Figure 2** shows a simplified version of Europe's forest carbon cycle.

Using **Figure 2** and your own knowledge, assess the implications of the data for attempts to manage carbon transfers.

[illegible]

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With reference to a river catchment that you have studied, assess the potential factors which can impact upon the flood hydrograph.

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**End of Section A**

**Turn over for Section B**

**Turn over ►**



**Section B**

Answer **one** question in this section.

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

**Question 2 Hot desert systems and landscapes**

**0 2 . 1** Outline the role of wind in the process of transport in hot deserts.

**[4 marks]**


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**Figure 4** shows a landscape in the Namib Desert in southern Africa.

**Figure 4**



Note: The landforms in this landscape are aligned approximately north-west to south-east and extend from between 16 km to 32 km in length, reaching heights between 60 metres to 240 metres. The sediment source is the Orange River, several kilometres away.

0 2 . 3

Using **Figure 4** and your own knowledge, assess the relative importance of factors leading to the development of this landscape.

[6 marks]

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To what extent can an understanding of feedback systems help to reduce the problem of desertification?

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**End of Question 2**



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Outline the role of waves in the transportation of sediments at the coast.

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**Figure 5** shows the distribution of coastal erosion and accretion (sediment build up) across selected European coastlines in 2004.

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

**[6 marks]**

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**Figure 6** is a photograph of a landform located in the Humber Estuary, UK.

**Figure 6**



Note: This landform extends about 5 km across the Humber Estuary and is only 50 metres wide at its narrowest point. The Holderness coastline to the north comprises mainly boulder clay, which is unconsolidated material deposited at the end of the last ice age.

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Using **Figure 6** and your own knowledge, assess the relative importance of factors leading to the development of this landform.

[6 marks]

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To what extent can an understanding of feedback systems help with the management of **one or more** coastal landscapes that you have studied?

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End of Question 3

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**Question 4    Glacial systems and landscapes**

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 Outline processes by which glaciers erode the landscape.**[4 marks]**

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

**[6 marks]**

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**Question 4 continues on the next page**

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**Figure 8** is an aerial photograph of a periglacial landscape in northern Canada.

### Figure 8



Note: There are thousands of small, medium and large scale lakes in this region. This image was taken in early summer and much of the ice has yet to thaw. Local relief and other aspects of geomorphology determine the rate at which ice melts.

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Using **Figure 8** and your own knowledge, assess the relative importance of factors leading to the development of this landscape.

**[6 marks]**

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To what extent can an understanding of feedback systems help with the management of **one or more** cold environments that you have studied?

**[20 marks]**

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End of Question 4

End of Section B



**Section C**

Answer **one** question in this section.

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

**Question 5 Hazards**

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Outline the concept of the Hazard Management Cycle.

**[4 marks]**

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**[6 marks]**

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**Figure 10** shows information about the 2010 earthquake in Haiti.

Using **Figure 10** and your own knowledge, assess the challenges in managing an event such as this.

**[9 marks]**

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How far do you agree that global governance is crucial in meeting the challenge of reducing incidence of wildfires?

**[9 marks]**

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0 5 . 5

To what extent does plate tectonic theory help in understanding the development of landforms associated with plate movement?

**[20 marks]**

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End of Question 5

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**Question 6 Ecosystems under stress****0 6 . 1**Outline the effect of human activity on succession in **one** plagioclimax that you have studied (eg heather moorland).**[4 marks]**


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**Figure 11** is in the insert.

**Figure 11** shows selected climate extremes and impacts affecting coral and forests in tropical and sub-tropical regions.

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

**[6 marks]**

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**Question 6 continues on the next page**

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**Figure 12** shows information about coral reefs.

Using **Figure 12** and your own knowledge, assess the implications of this information for the management of coral reefs.

[illegible]

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0 6 . 4

How far do you agree that global governance has a role to play in the conservation of the savanna grassland biome?

[9 marks]

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With reference to the tropical rainforest biome, assess the view that latitude is the most important factor in its natural development.

[20 marks]

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END OF QUESTIONS



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