

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

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 2 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**

Explain the concept of negative feedback within the carbon cycle.

[4 marks]

Extra space



Figure 2 shows regional changes in forest cover between 1990 and 2010.

Using **Figure 2** and your own knowledge, assess the challenges arising out of the changing forest cover.

[illegible]

Extra space _____



0	1	.	4
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‘Human activity needs to focus more on adapting to the expected negative impacts of climate change than on taking measures to restore atmospheric carbon to pre-industrial levels.’

How far do you agree with this view?

[20 marks]

[illegible]

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Extra space _____



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 sources of water in deserts.

[4 marks]

 Extra space



Figure 4 shows a landscape feature in the White Desert in western Egypt.

Figure 4



Note: The White Desert extends over 300 km² of the Egyptian Sahara Desert. Sedimentary rocks formed from oceanic deposition in an earlier geological era are now subject to hot desert conditions. Features such as those illustrated protrude above the landscape to give the White Desert its distinctive character. Mushroom-shaped formations can be as high as 4.5 metres.

0 2 . 3

Using **Figure 4** and your own knowledge, assess the role of wind in the development of this landscape.

[6 marks]



Extra space _____

How far can an understanding of systems in physical geography help to mitigate against the expansion of deserts into semi-arid areas?

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[illegible]

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End of Question 2

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[illegible]

Figures 5a and 5b are in the insert.

Figure 5a shows geographical variation in the 1992–2014 global sea level change using satellite data.

Figure 5b shows geographical variation in the 1992–2019 global sea level change using another source of satellite data.

0	3	.	2
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Using only **Figures 5a** and **5b**, evaluate the relative usefulness of these sources in demonstrating eustatic sea level change.

[6 marks]

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Question 3 continues on the next page

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Figure 6 is a photograph of part of the Mersey Estuary at Runcorn, Cheshire in 2019.

Figure 6



Note: Runcorn lies about 25 kilometres from the sea on the south bank of the tidal estuary of the River Mersey where the tidal range can be as high as 9 metres. This particular photograph was taken at low tide looking towards the north bank of the estuary. The River Mersey ends its approximately 110 km course in this tidal estuary.

0 3 . 3

Using **Figure 6** and your own knowledge, assess the view that deposition is the most important factor in the development of this landscape.

[6 marks]



Extra space _____

0 3 . 4

With reference to a coastal landscape from beyond the UK, assess the role of human intervention in shaping the physical environment.

[20 marks]

Turn over ►



[illegible]

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Figures 7a and 7b are in the insert.

Figure 7a shows the distribution, size and type of selected Himalayan glaciers.

Figure 7b shows the change in mass balance of the selected glaciers between 2000 and 2016.

0	4	.	2
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Analyse the data shown in **Figures 7a** and **7b**.

[6 marks]

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Extra space _____

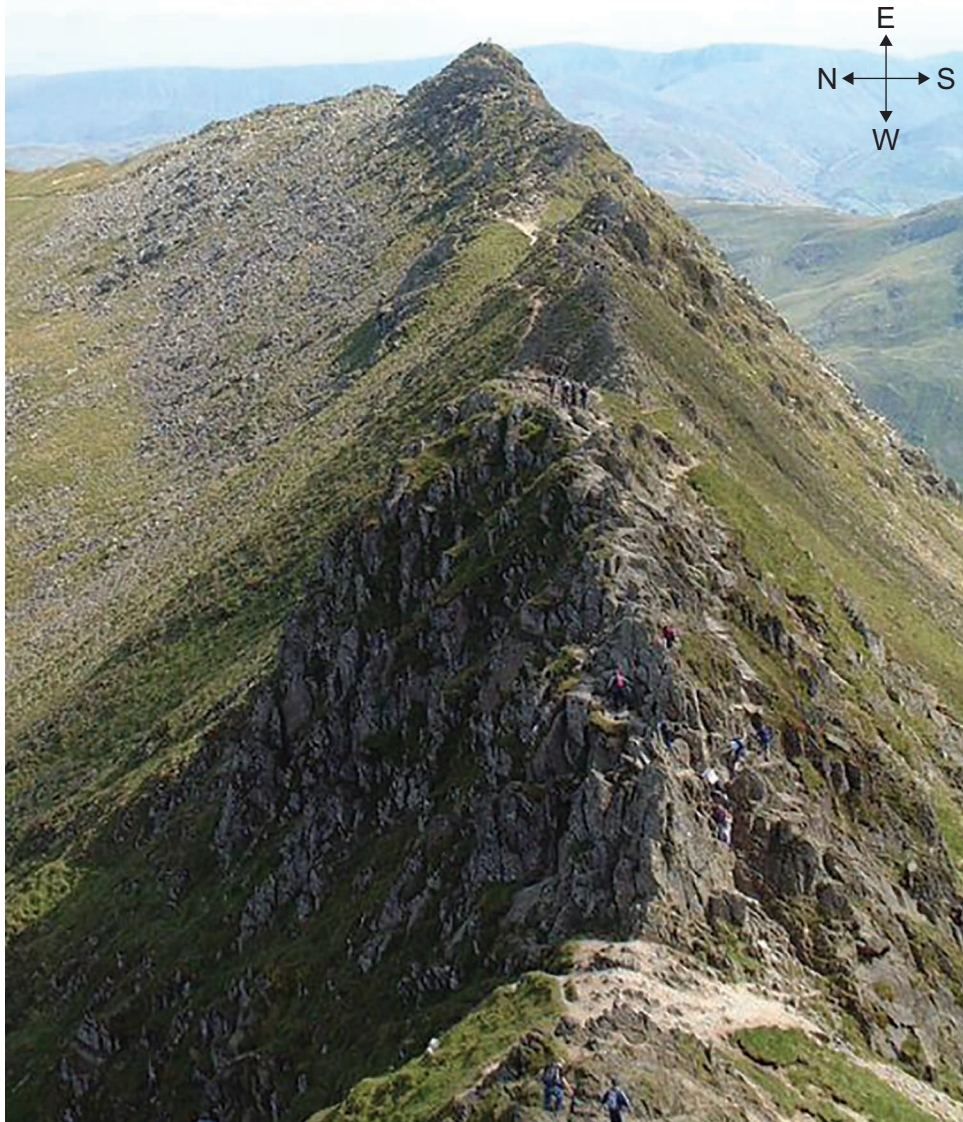
Question 4 continues on the next page

Turn over ►



Figure 8 shows a glacial landscape feature, Striding Edge, in the Lake District National Park, England.

Figure 8



Note: Striding Edge runs for several kilometres from Helvellyn Peak (950 metres) in the west towards Ullswater in the east. To the north is Red Tarn, a large corrie lake. The predominant rock type is igneous and dates back to a period of volcanicity around 450 million years ago.

0 4 . 3

Using **Figure 8** and your own knowledge, assess the role of erosion in the development of this landscape feature.

[6 marks]



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'Human activity is having a devastating impact upon cold environments with little evidence of a sustainable future emerging.'

[20 marks]

[illegible]

Turn over ►



[illegible]

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

0	5	.	1
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Outline factors which lead to the formation of mudflows, a volcanic hazard.

[4 marks]

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Analyse the data shown in **Figure 9**.

[6 marks]

[illegible]

Extra space _____



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Using **Figures 10a, 10b, 10c** and your own knowledge, assess the challenges in managing flood risk associated with tropical storms in Louisiana.

[illegible]

0	5	.	4
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Assess the usefulness of prediction in the management of wildfire.

[9 marks]

Extra space _____

0 5 . 5

'Seismic hazards will always be harder to manage than volcanic hazards due to their unpredictability and scale.'

To what extent do you agree with this view?

[20 marks]

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End of Question 5

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Question 6 Ecosystems under stress**0 6 . 1**

Outline the concept of climatic climax in vegetation succession.

[4 marks]

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[6 marks]

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Figure 12 shows a range of issues facing game parks and reserves in Kenya, east Africa.

Using **Figure 12** and your own knowledge, assess the implications of this data for sustainability in areas of savanna grassland in east Africa.

[illegible]

Extra space _____



0 6 . 4

Analyse the interconnections between climate, vegetation and soils in the development of temperate deciduous woodland.

[9 marks]

Turn over ►



[illegible]

With reference to an ecosystem at a local scale, evaluate the extent to which management has created a viable future for the area.

[illegible]

[illegible]

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END OF QUESTIONS



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4 4



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