

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	



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 _____



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]



Question 3 Coastal systems and landscapes

0 3 . 1 Outline factors leading to the formation of fjords.

[4 marks]

Extra space _____



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]



Question 4 Glacial systems and landscapes

0 4 . 1 Outline processes leading to the formation of kames.

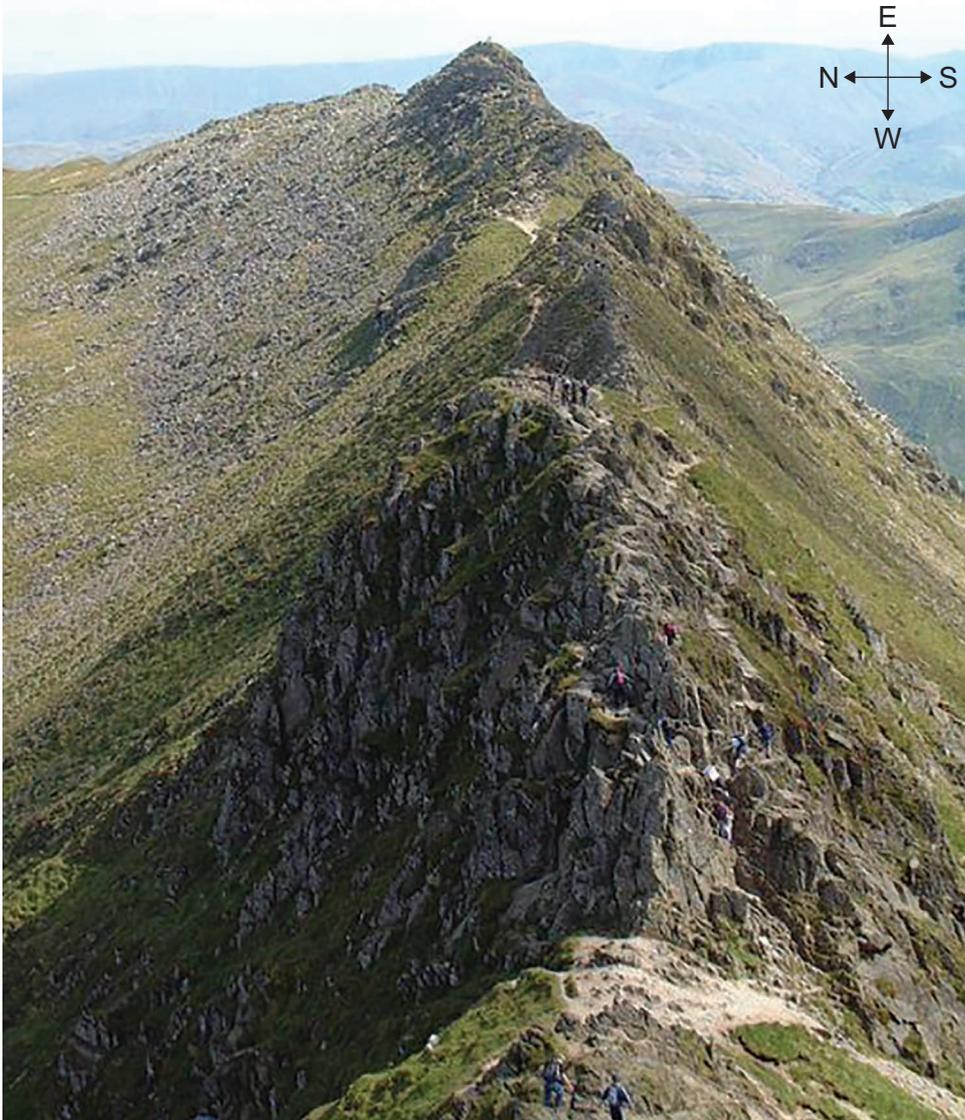
[4 marks]

Extra space _____



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 vulcanicity 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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Question 4 continues on the next page

Turn over ►



Section C

Answer **one** question in this section.

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

Question 5 Hazards

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

[4 marks]

Extra space

Question 5 continues on the next page

Turn over ►



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]

Turn over ►



Question 6 Ecosystems under stress

0 6 . 1

Outline the concept of climatic climax in vegetation succession.

[4 marks]

Extra space _____



Extra space _____

0 6 . 5

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

[20 marks]



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