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Pearson Edexcel
Level 3 GCE

Centre Number	Candidate Number
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Geography

Advanced Subsidiary

Paper 1: Dynamic Landscapes

Tuesday 15 May 2018 – Afternoon Time: 1 hour 45 minutes	Paper Reference 8GE0/01
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<p>You must have: Resource Booklet (enclosed) Calculator, ruler</p>	Total Marks
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Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions in Section A **and EITHER** Section B **OR** Section C.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Calculators may be used.
- Any **calculations** must show **all** stages of **working out** and a **clear answer**.

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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Answer Section A and EITHER Section B OR Section C.

SECTION A: TECTONIC PROCESSES AND HAZARDS

Answer ALL questions. Write your answers in the spaces provided.

You must use the Resource Booklet provided.

- 1 (a) State **one** tectonic hazard that can cause coastal flooding. (1)

(b) Study Figure 1 in the Resource Booklet.

- (i) Compare the economic damage caused by tectonic hazards before and after 2006. (2)

- (ii) Suggest **one** reason for the differences shown. (3)

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(d) Explain why volcanic eruptions vary in their magnitude.

(6)

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(e) Assess the effectiveness of prediction and forecasting in the management of tectonic hazards.

(12)

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(Total for Question 1 = 28 marks)

TOTAL FOR SECTION A = 28 MARKS



SECTION B: GLACIATED LANDSCAPES AND CHANGE

Do not answer Section B (Glaciated Landscapes and Change) if you have answered Section C (Coastal Landscapes and Change).

Indicate which section you are answering by marking a cross . If you change your mind, put a line through the box and then indicate your new section with a cross .

If you answer Section B put a cross .

You must use the Resource Booklet provided.

- 2 (a) State **one** process of mass movement that occurs in glaciated landscapes. (1)

(b) Study Figure 2 in the Resource Booklet, which shows past and predicted changes in the global permafrost area.

- (i) Calculate the percentage loss of permafrost area between 1900 and 2100.

Show your working.

(2)

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(d) Explain the natural causes of long-term climate change.

(6)

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(e) Assess the threats to the economic and environmental value of glacial landscapes.

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(Total for Question 2 = 28 marks)



3 (a) Study Figure 3 in the Resource Booklet.

A group of students collected data about footpath erosion near Easedale Tarn, a fragile, glaciated landscape in the Lake District.

They measured vegetation cover across a transect on:

1. a managed footpath
2. an unmanaged footpath.

They presented their findings as two kite diagrams.

(i) Identify **two** impacts of footpath management.

(2)

1

2

(ii) Suggest **one** reason why footpath management is necessary in this fragile glaciated landscape.

(2)

(iii) Identify **one** qualitative method the students might use to compare these two transects.

(1)

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(iv) The students also collected data at ten sites along the **unmanaged** footpath, measuring width at 250-metre intervals away from the car park up a slope.

They used this data to test the relationship between the width of the footpath and distance from the car park.

Explain how the use of a statistical method would help their investigation about footpath erosion.

(4)

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(Total for Question 3 = 18 marks)



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(Total for Question 4 = 16 marks)

TOTAL FOR SECTION B = 62 MARKS



SECTION C: COASTAL LANDSCAPES AND CHANGE

Do not answer Section C (Coastal Landscapes and Change) if you have answered Section B (Glaciated Landscapes and Change).

If you answer Section C put a cross in the box .

You must use the Resource Booklet provided.

- 5** (a) State **one** process of mass movement that occurs in coastal landscapes. (1)

(b) Study Figure 5 in the Resource Booklet, which shows global sea level changes before and after 1950.

- (i) Calculate the percentage sea level change between 1950 and 2010.

Show your working.

(2)

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(d) Explain how vegetation helps stabilise sandy coastlines.

(6)

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(e) Assess the social and economic risks of rapid coastal retreat.

(12)

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(Total for Question 5 = 28 marks)



6 (a) Study Figure 6 in the Resource Booklet.

A group of students collected data about footpath erosion at Studland Bay, a sand dune coastline in Southern England.

They measured vegetation cover across a transect on:

1. a managed footpath
2. an unmanaged footpath.

They presented their findings as two kite diagrams.

(i) Identify **two** impacts of footpath management.

(2)

1

2

(ii) Suggest **one** reason why footpath management is necessary in sandy coastal landscapes.

(2)

(iii) Identify **one** qualitative method the students might use to compare these two transects.

(1)

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(iv) The students also collected data at ten sites along the **unmanaged** footpath, measuring width at 30-metre intervals away from the car park, northwards.

They used this data to test the relationship between the width of the footpath and distance from the car park.

Explain how the use of a statistical method would help their investigation about footpath erosion.

(4)

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(Total for Question 6 = 18 marks)



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(Total for Question 7 = 16 marks)

TOTAL FOR SECTION C = 62 MARKS
TOTAL FOR PAPER = 90 MARKS



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