

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				
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Pearson Edexcel Level 3 GCE									
Thursday 16 May 2024									
Morning (Time: 2 hours 15 minutes)					Paper reference		9GE0/01		
Geography									
Advanced PAPER 1									
You must have: Resource Booklet (enclosed) Calculator, ruler								Total Marks	

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 Section **C**.
- Answer **either** Question 2 **or** Question 3 in Section **B**.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 105.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Calculators may be used.

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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SECTION A

Tectonic Processes and Hazards

Answer ALL questions in this section.

1 Study Figure 1 below.

This is part of an investigation showing the total number of deaths caused by earthquake events for 11 years from 2011 to 2021.

Year	Total deaths from earthquake events
2011	21,942
2012	689
2013	1,572
2014	756
2015	9,624
2016	1,297
2017	1,012
2018	4,535
2019	244
2020	180
2021	2,476

Figure 1

Deaths from earthquake events, 2011–2021

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(a) Using the data in Figure 1,

(i) Calculate the mean number of deaths for these **earthquake events**.

Give your answer to **one** decimal place.

You **must** show your working.

(2)

(ii) Calculate the median number of deaths caused by these **earthquake events**.

You **must** show your working.

(2)

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(b) Assess the importance of levels of development in understanding the impacts of tectonic hazards.

(12)

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(Total for Question 1 = 16 marks)

TOTAL FOR SECTION A = 16 MARKS



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Study Figure 2b in the Resource Booklet.

(b) Suggest how glacial erosion has contributed to the formation of this landscape.

(6)

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(c) Explain why some glacial landscapes have greater economic value than others.

(8)

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Handwriting practice lines consisting of six horizontal dotted lines.

A large, empty rectangular area for writing or drawing, bounded by a solid grey line.



(d) Evaluate the view that active glacial landscapes are always more fragile than relict landscapes.

(20)

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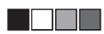


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(Total for Question 2 = 40 marks)

Large empty rectangular area for writing.



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Study Figure 3b in the Resource Booklet.

(b) Explain how sediment transport and deposition contribute to the formation of this landscape.

(6)

Area with horizontal dotted lines for writing.



(c) Explain the role of mass movement in creating distinctive coastal landforms.

(8)

Area with horizontal dotted lines for writing.

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Handwriting practice lines consisting of six horizontal dotted lines.

A large empty rectangular area for writing or drawing.



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(d) Evaluate the view that the higher the level of economic development the greater the consequences of coastal flooding.

(20)

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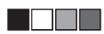


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Area with horizontal dotted lines for writing.

(Total for Question 3 = 40 marks)

TOTAL FOR SECTION B = 40 MARKS



SECTION C

Physical Systems and Sustainability

Answer ALL questions in this section.

You must use the Resource Booklet provided.

4 Study Figure 4 in the Resource Booklet.

(a) Suggest **one** possible impact of the changes shown on forest ecosystems.

(3)

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(b) Explain why hard engineering may increase the risk of river flooding in some places.

(6)

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Area with horizontal dotted lines for writing.



(c) Explain the role of photosynthesis in the ocean on the carbon cycle.

(8)

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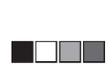
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Handwriting practice area with six horizontal dotted lines.

Main blank writing area for the student's response.



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(d) Assess the impact of increasing ocean acidification on people and marine ecosystems.

(12)

Area with horizontal dotted lines for writing the answer.

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(e) Evaluate the view that trans-boundary water conflicts will inevitably increase in the future.

(20)

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Handwriting practice area with 25 horizontal dotted lines.



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(Total for Question 4 = 49 marks)

TOTAL FOR PAPER = 105 MARKS



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Pearson Edexcel Level 3 GCE**Thursday 16 May 2024**

Morning (Time: 2 hours 15 minutes)

Paper
reference**9GE0/01****Geography****Advanced
PAPER 1****Resource Booklet****Do not return this Booklet with the question paper.***Turn over* ►**P74464A**©2024 Pearson Education Ltd.
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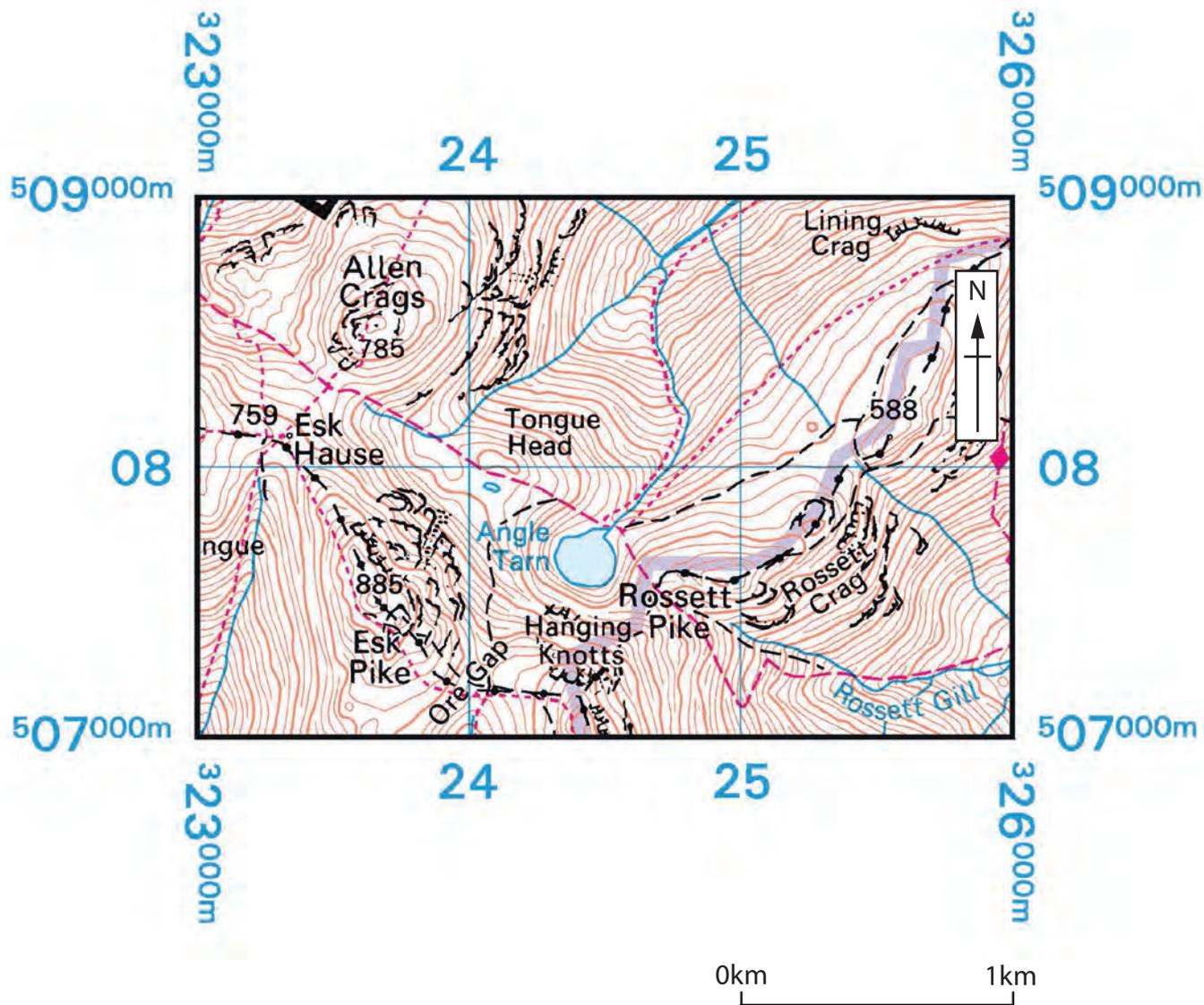
SECTION B

The following resources relate to Question 2.



Figure 2a

A relict till plain created by the Laurentide Ice Sheet, in North America



Key

ROCK FEATURES



..... Footpath

Figure 2b

A relict upland glaciated landscape in the Lake District, northern England



The following resources relate to Question 3.

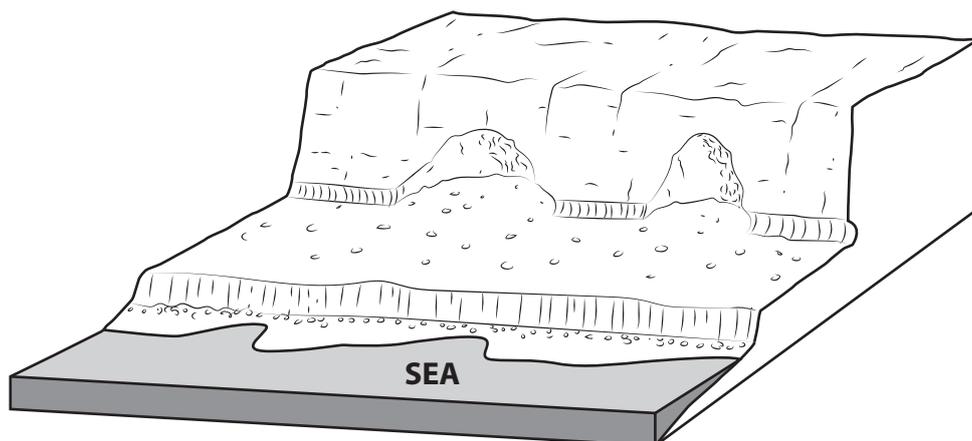
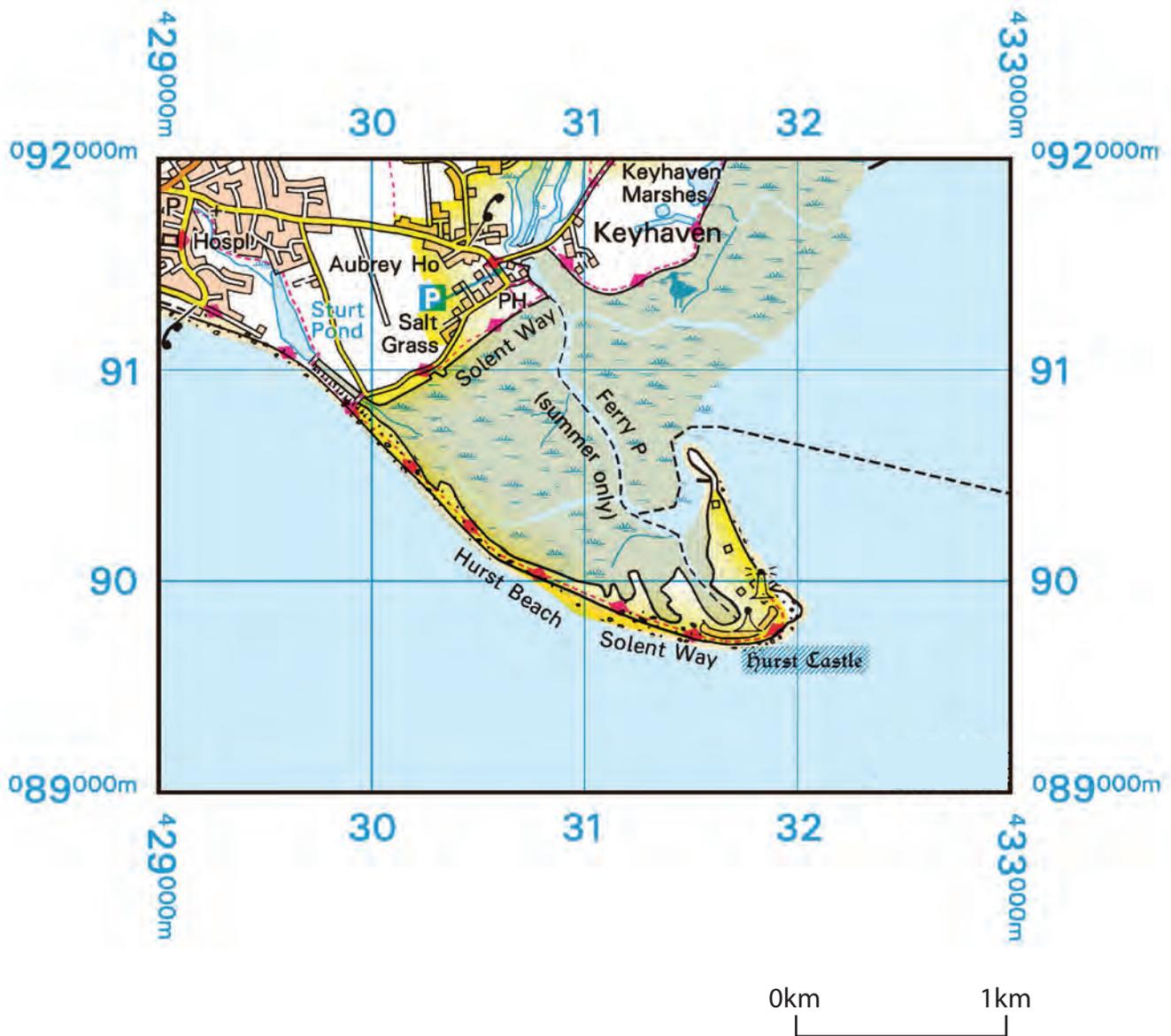


Figure 3a

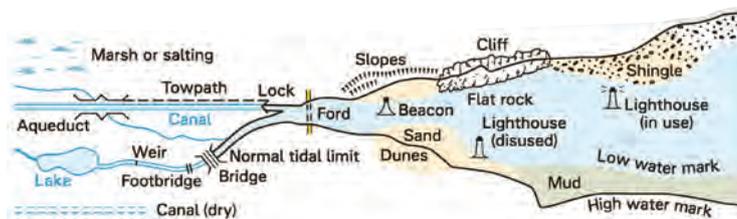
Diagram showing an emergent coastline



Key

 National Park

WATER FEATURES



◆ ◆ National Trail, Scotland's Great Trails, European Long Distance Path and selected Recreational Routes

----- Footpath

Figure 3b

A depositional coastal landscape in southern England



SECTION C

The following resource relates to Question 4a.

Predicted %
change in
UK summer
precipitation

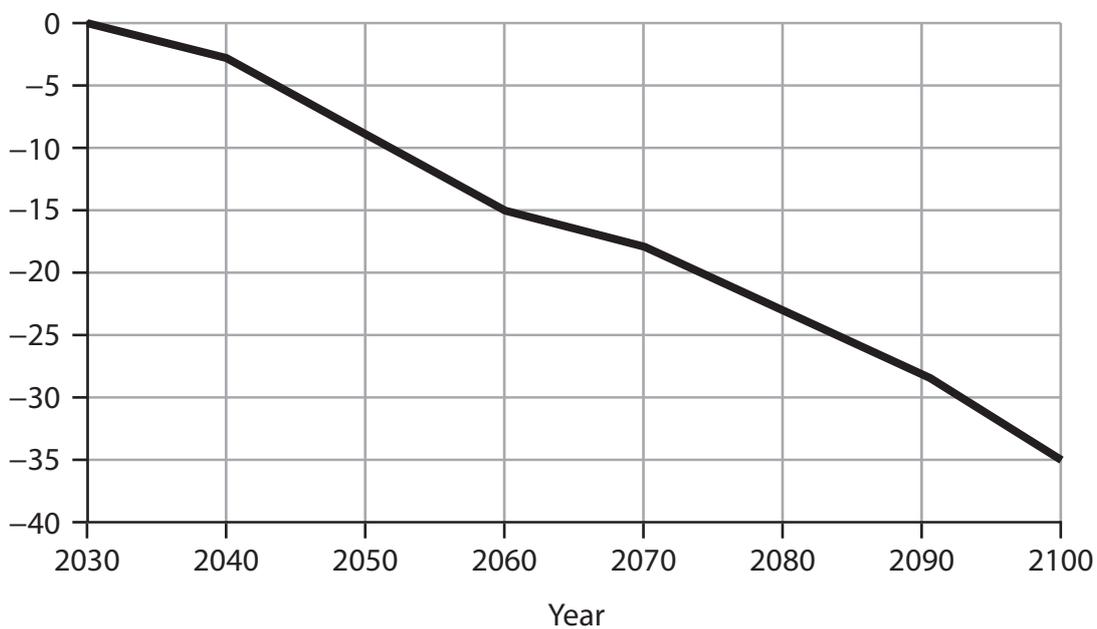


Figure 4

Predicted percentage (%) change to UK summer precipitation, 2030–2100



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Acknowledgements

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Figure 2b: © Crown copyright

Figure 3b: © Crown copyright

