Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

Pearson Edexcel Level 3 GCE

Time 2 hours 15 minutes

Paper reference **9GE0/01**

Geography

Advanced
PAPER 1

You must have:
Resource Booklet (enclosed)
Ruler, calculator

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.*
- 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 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.*

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. Write your answers in the spaces provided.

1 Study Figure 1.

This is part of an investigation into the impacts of earthquake events with over five deaths, in Sumatra, Indonesia.

Date	Magnitude (MMS)	Deaths
December 2016	6.5	104
July 2013	6.1	43
September 2011	6.7	10
October 2010	7.8	408
September 2009	7.6	1,115
September 2007	8.4	23
March 2007	6.4	68
December 2006	5.8	7
March 2005	8.6	1,314
December 2004	9.3	227,898
June 2000	7.9	103

Figure 1

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(a) (i) Calculate the mean **magnitude** of these earthquakes.

Give your answer to one decimal place.

(1)

..... MMS

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

(1)

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(iii) Calculate the interquartile **range of deaths** caused by these earthquakes.

You must show your working.

(2)

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(b) Assess the importance of prediction and forecasting in reducing the vulnerability of communities to earthquake hazards.

(12)

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(Total for Question 1 = 16 marks)

TOTAL FOR SECTION A = 16 MARKS

SECTION B

Landscape Systems, Processes and Change

Answer ONE question – EITHER Question 2 OR Question 3.

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

If you answer Question 2 put a cross in the box ☐ .

Glaciated Landscapes and Change

You must use the Resource Booklet provided.

2 Study Figure 2a in the Resource Booklet.

(a) Explain the contribution of glacial processes to the development of these landforms.

(6)

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Study Figure 2b in the Resource Booklet.

(b) Explain how glacial deposition contributes to the development of this landscape.

(6)

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(c) Explain the role of glacial and periglacial landscapes in the maintenance of the water cycle.

(8)

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(d) Evaluate the view that global warming is the greatest threat to both active and relict glaciated landscapes.

(20)

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(Total for Question 2 = 40 marks)

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Do not answer Question 3 if you have answered Question 2.

If you answer Question 3 put a cross in the box ☒ .

Coastal Landscapes and Change

You must use the Resource Booklet provided.

3 Study Figure 3a in the Resource Booklet.

(a) Explain the contribution of marine processes in the development of these landforms.

(6)

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Study Figure 3b in the Resource Booklet.

(b) Explain how subaerial processes contribute to the development of this landscape.

(6)

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(c) Explain the role of sea level change in the formation of both emergent and submergent coastlines.

(8)

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(d) Evaluate the view that global warming is the greatest threat to coastlines and their communities.

(20)

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(Total for Question 3 = 40 marks)

TOTAL FOR SECTION B = 40 MARKS

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SECTION C

Physical Systems and Sustainability

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

You must use the Resource Booklet provided.

4 Study Figure 4 in the Resource Booklet.

(a) Suggest **one** reason for the differences in the growth of electricity generated from solar power.

(3)

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(b) Explain how oceans regulate the composition of the atmosphere.

(6)

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(c) Explain the contribution of human activity to the risk of drought.

(8)

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(d) Assess how successful different countries have been in achieving energy security.

(12)

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(e) Evaluate the view that land use changes are the main cause of the increasing risk of river flooding.

(20)

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(Total for Question 4 = 49 marks)

TOTAL FOR PAPER = 105 MARKS

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Pearson Edexcel Level 3 GCE

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

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Q:1/1/1/1

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SECTION B

The following resources relate to Question 2.

Figure 2a

Distinctive glacial landforms in an upland relict landscape

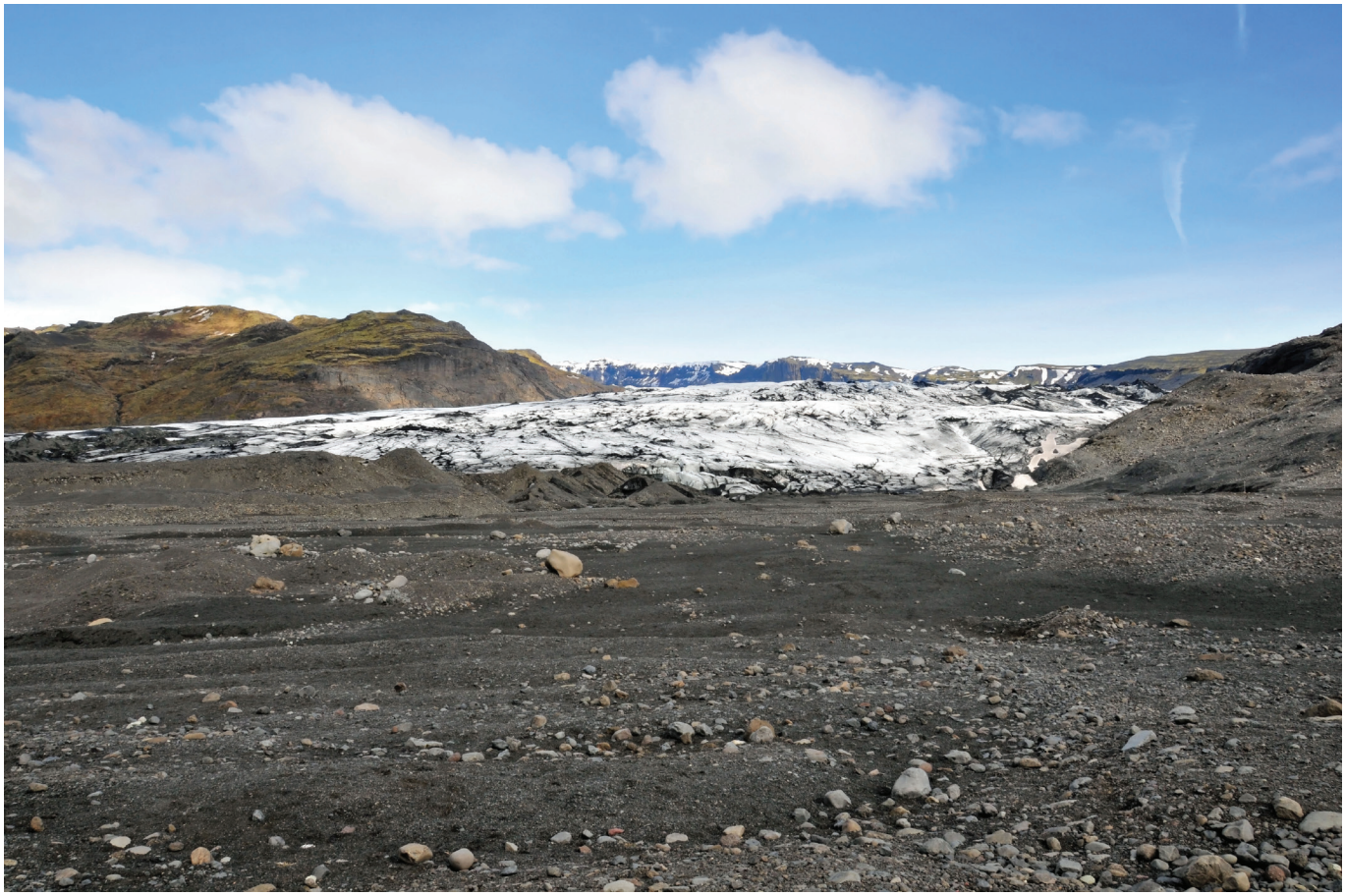

Figure 2b

An active glacial landscape in Iceland

The following resources relate to Question 3.

Figure 3a

Distinctive landforms in a coastal plain landscape

Figure 3b

A coastal landscape in Dorset

SECTION C

The following resource relates to Question 4a.

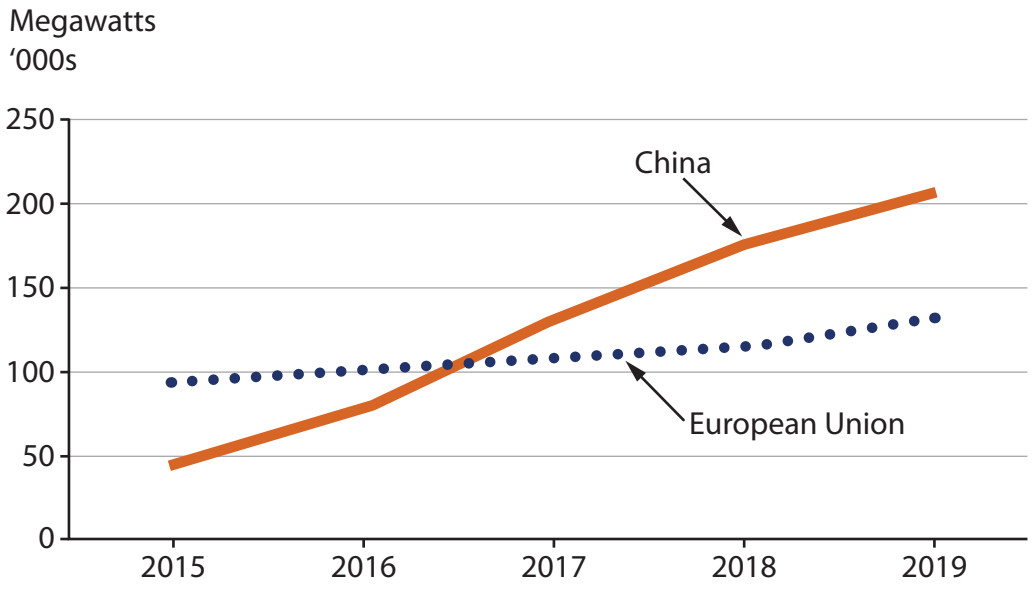

Figure 4

Electricity generation (in megawatts) from solar power in two contrasting places

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