

Paper Reference 9GE0/01
Pearson Edexcel
Level 3 GCE

Total Marks

Geography
Advanced
PAPER 1

Thursday 16 May 2024 – Morning

Time: 2 hours 15 minutes

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

YOU MUST HAVE

Calculator, ruler

YOU WILL BE GIVEN

Resource Booklet

Data Booklet

INSTRUCTIONS

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 in this Question Paper – 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.

SECTION A

Tectonic Processes and Hazards

Answer ALL questions in this section.

- 1. Study Figure 1 in the Data Booklet.**

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

- (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 marks)

Answer space continues on the next page.

1. (a) (i) continued.

(continued on the next page)

1. (a) continued.

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

You MUST show your working.

(2 marks)

(continued on the next page)

Turn over

1. continued.

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

(12 marks)

Answer lines continue on the next four pages.

1. (b) continued.

[illegible]

Turn over

1. (b) continued.

[illegible]

Turn over

1. (b) continued.

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Turn over

1. (b) continued.

(Total for Question 1 = 16 marks)

TOTAL FOR SECTION A = 16 MARKS

SECTION B**Landscape Systems, Processes and Change**

**Answer ONE question in this section –
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 this
box**

☐**Glaciated Landscapes and Change**

You must use the Resource Booklet provided.

Turn over

2. Study Figure 2a in the Resource Booklet.

(a) Explain how the processes of lodgement and ablation have created this relict till plain.

(6 marks)

Answer lines continue on the next page.

2. (a) continued.

(continued on the next page)

Turn over

2. continued.

Study Figure 2b in the Resource Booklet.

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

(6 marks)

Answer lines continue on the next page.

[illegible]

Turn over

2. (b) continued.

(continued on the next page)

2. continued.

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

(8 marks)

Answer lines continue on the next two pages.

2. (c) continued.

[illegible]

Turn over

2. (c) continued.

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(continued on the next page)

Turn over

2. continued.

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

(20 marks)

Answer lines continue on the next seven pages.

2. (d) continued.

[illegible]

Turn over

2. (d) continued.

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Turn over

2. (d) continued.

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2. (d) continued.

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2. (d) continued.

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2. (d) continued.

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2. (d) continued.

[illegible]

(Total for Question 2 = 40 marks)

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

Answer ONE question in this section – 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 3, put a cross in this box

☐

Coastal Landscapes and Change

You must use the Resource Booklet provided.

3. Study Figure 3a in the Resource Booklet.

(a) Explain how sea level change contributes to the formation of emergent coastlines.

(6 marks)

Answer lines continue on the next page.

3. (a) continued.

(continued on the next page)

3. continued.

Study Figure 3b in the Resource Booklet.

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

(6 marks)

Answer lines continue on the next page.

[illegible]

Turn over

3. (b) continued.

(continued on the next page)

Turn over

3. continued.

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

(8 marks)

Answer lines continue on the next two pages.

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Turn over

3. (c) continued.

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3. (c) continued.

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(continued on the next page)

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3. continued.

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

(20 marks)

Answer lines continue on the next seven pages.

3. (d) continued.

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3. (d) continued.

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3. (d) continued.

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Turn over

3. (d) continued.

[illegible]

Turn over

3. (d) continued.

[illegible]

Turn over

3. (d) continued.

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3. (d) continued.

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(Total for Question 3 = 40 marks)

TOTAL FOR SECTION B = 40 MARKS

Turn over

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 marks)

(continued on the next page)

4. continued.

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

(6 marks)

Answer lines continue on the next page.

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Turn over

4. (b) continued.

(continued on the next page)

4. continued.

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

(8 marks)

Answer lines continue on the next two pages.

[illegible]

Turn over

4. (c) continued.

[illegible]

Turn over

4. (c) continued.

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(continued on the next page)

Turn over

4. continued.

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

Answer lines continue on the next four pages.

Turn over

4. (d) continued.

[illegible]

Turn over

4. (d) continued.

[illegible]

Turn over

4. (d) continued.

[illegible]

Turn over

4. (d) continued.

(continued on the next page)

4. continued.

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

(20 marks)

Answer lines continue on the next seven pages.

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4. (e) continued.

[illegible]

Turn over

4. (e) continued.

[illegible]

Turn over

4. (e) continued.

[illegible]

Turn over

4. (e) continued.

[illegible]

Turn over

4. (e) continued.

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4. (e) continued.

[illegible]

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4. (e) continued.

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(Total for Question 4 = 49 marks)

TOTAL FOR PAPER = 105 MARKS

END OF PAPER