

Paper Reference 1GB0/03
Pearson Edexcel
Level 1/Level 2 GCSE (9–1)

Total Marks

Geography B
PAPER 3: People and Environmental Issues
Making Geographical Decisions

Friday 16 June 2023 – Afternoon

Time: 1 hour 30 minutes

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

Surname					
Other names					
Centre Number					
Candidate Number					

YOU MUST HAVE

Calculator

YOU WILL BE GIVEN

Resource Booklet

INSTRUCTIONS

Answer ALL questions.

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 64.

The marks for EACH question are shown in brackets – use this as a guide as to how much time to spend on each question.

The marks available for spelling, punctuation and grammar are clearly indicated.

Turn over

ADVICE

Read each question carefully before you start to answer it.

Try to answer every question.

Check your answers if you have time at the end.

SECTION A

People and the Biosphere

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

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

1. Use Section A (pages 4 to 9) in the Resource Booklet to answer this question.

(a) Study Figure 1.

- (i) Name the ecosystem which covers the largest area of land in Figure 1.
(1 mark)

(continued on the next page)

1. (a) continued.

(ii) Identify TWO statements which correctly describe the past distribution of forest on the map in Figure 1.

A The forest was fairly evenly distributed

B Forests grew mainly in central areas of Iceland

C Forests grew mainly near the edges of the land

D More forest was in the south–east of Iceland

E More forest was in the south–west of Iceland

Answers

(2 marks)

(continued on the next page)

Turn over

1. continued.

(b) Using your own knowledge, name ONE forest biome that is NOT present in Iceland.

(1 mark)

(continued on the next page)

1. continued.

(c) Using evidence from Figures 1 and 2, suggest **TWO** ways in which Iceland's physical geography influences the distribution of its ecosystems.

(4 marks)

1 _____

2 _____

(Total for Question 1 = 8 marks)

TOTAL FOR SECTION A = 8 MARKS

Turn over

SECTION B

Forests Under Threat

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

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

2. Use Section B (pages 10 and 11) in the Resource Booklet to answer this question.

(a) Study Figure 3.

(i) Which ONE of the following is the best definition of biodiversity?

- A The percentage of forest which has been removed**
- B The different forests found in a country**
- C The rate of nutrient cycling in an ecosystem**
- D The number of plant and animal species**

Answer

(1 mark)

(continued on the next page)

Turn over

2. (a) continued.

(ii) Using Figure 3 and your own knowledge, explain ONE HUMAN reason and ONE PHYSICAL reason why very little of Iceland's forest remains.

(4 marks)

Human reason

Physical reason

2. continued.

(b) Study Figure 4.

**Using Figure 4 and your own knowledge,
explain ONE possible impact of replanting
forests on Iceland's economy.**

(2 marks)

(continued on the next page)

2. continued.

(c) Using your own knowledge, explain ONE way in which trees in the taiga biome are adapted to the climate.

(2 marks)

(Total for Question 2 = 9 marks)

TOTAL FOR SECTION B = 9 MARKS

SECTION C

Consuming Energy Resources

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

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

3. Use Section C (pages 12 to 23) in the Resource Booklet to answer this question.

(a) Study Figure 5.

(i) Identify the sector which employs most people.

(1 mark)

(ii) Identify the sector which is MOST CLEARLY shown as being threatened by climate change.

(1 mark)

(continued on the next page)

3. continued.

(b) Study Figure 6.

(i) Calculate the value of **X** in the table.

A 78

B 61

C 19

D 13

Answer

(1 mark)

(ii) Using your own knowledge, state **ONE** possible **POLITICAL** cause of a large global oil price increase.

(1 mark)

(continued on the next page)

Turn over

3. continued.

(c) A country's 'energy mix' is the range of different energy sources used by its people and industries.

Using evidence from Figures 5 and 6, explain TWO reasons why the people of Iceland need a diverse energy mix.

(4 marks)

Answer lines continue on the next page.

1 _____

2 _____

3. (c) continued.

(continued on the next page)

3. continued.

(d) Study Figure 7.

Identify the interquartile range of the data.

A 75 – 5

B 75 – 20

C 55 – 15

D 30 – 15

Answer

(1 mark)

(continued on the next page)

Turn over

3. continued.

(e) Using your own knowledge, explain
ONE PHYSICAL and ONE POLITICAL
reason why some countries produce little
renewable energy.

(4 marks)

Answer lines continue on the next page.

Physical reason

Political reason

Turn over

3. (e) continued.

(continued on the next page)

3. continued.

(f) Study Figure 8.

Using evidence from Figure 8, assess the ENVIRONMENTAL impacts of renewable energy use in Iceland.

(8 marks)

Answer lines continue on the next three pages.

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3. (f) continued.

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3. (f) continued.

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3. continued.

(g) Study Figure 9.

(i) Identify the year when Iceland's annual average temperature was highest.

(1 mark)

(ii) Using Figure 9, identify ONE reason why climate change leads to the loss of Arctic fish species.

(1 mark)

(continued on the next page)

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3. continued.

(h) Study Figure 10.

Assess the value of Iceland's Climate Action Plan as a strategy that OTHER COUNTRIES could also use.

(8 marks)

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3. (h) continued.

[illegible]

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3. (h) continued.

[illegible]

Turn over

3. (h) continued.

(Total for Question 3 = 31 marks)

TOTAL FOR SECTION C = 31 MARKS

SECTION D

Making a Geographical Decision

Answer Question 4. Write your answers in the space provided.

In this question, up to four additional marks will be awarded for your spelling, punctuation, grammar and your use of specialist terminology.

4. Study the three options below for Iceland's government to manage the country's natural environment and resources more sustainably.

OPTION 1: Make new laws to limit the harm done by aluminium production.

OPTION 2: Increased planting of new trees to replace Iceland's lost taiga forest.

OPTION 3: Take action to reduce fossil fuel use by transport in Iceland.

Select the option you think Iceland's government ought to focus on FIRST.

Justify your choice.

Use information from the Resource Booklet and knowledge and understanding from the rest of your geography course to support your answer.

(12 marks)

Answer lines are on the next eight pages.

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CHOSEN OPTION

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4. continued.

(Spelling, punctuation, grammar and use of specialist terminology = 4 marks)

(Total for Question 4 = 16 marks)

TOTAL FOR SECTION D = 16 MARKS

TOTAL FOR PAPER = 64 MARKS

END OF PAPER
