

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

Leave blank

General Certificate of Education
June 2003
Advanced Subsidiary Examination



GEOGRAPHY (SPECIFICATION B) Unit 2 The Physical Options

GGB2

Friday 23 May 2003 Afternoon Session

In addition to this paper you will require:

- The insert to be used with Questions 1 and 3 (enclosed).

The insert is not included in the question paper due to third-party copyright constraints.

The full copy of this paper can be obtained by ordering GGB2 from AQA Publications
Tel: 0161 953 1170

Time allowed: 1 hour

Instructions

- Use blue or black ink or ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.
- Answer **one** question in the spaces provided.
Choose option **P** or **Q** or **R**.
Option **P**: Glacial Environments – Page 3.
Option **Q**: Coastal Environments – Page 10.
Option **R**: Urban Physical Environments (Temperate Urban Areas) – Page 16.
- Do all rough work in this book. Cross through any work you do not want marked.
- Give sketch maps, diagrams and specific examples, where appropriate.
- If there is not enough space for your answer(s), use the extra page(s) at the end of the book. If you do this, make sure that you show the number(s) of the question(s) you are answering.

Information

- The maximum mark for this paper is 50.
- Mark allocations are shown in brackets.
- You are expected to use a calculator where appropriate.
- You will be assessed on your ability to use an appropriate form and style of writing, to organise relevant information clearly and coherently, and to use specialist vocabulary, where appropriate.
- The degree of legibility of your handwriting and the level of accuracy of your spelling, punctuation and grammar will also be taken into account.

For Examiner's Use			
Number	Mark	Number	Mark
P			
1			
Q			
2			
R			
3			
Total (Column 1)			
Total (Column 2)			
TOTAL			
Examiner's Initials			

Answer the question on Option **P** or **Q** or **R**.

OPTION P GLACIAL ENVIRONMENTS

- 1** (a) Look at **Figure 1**, which shows a glacial budget.

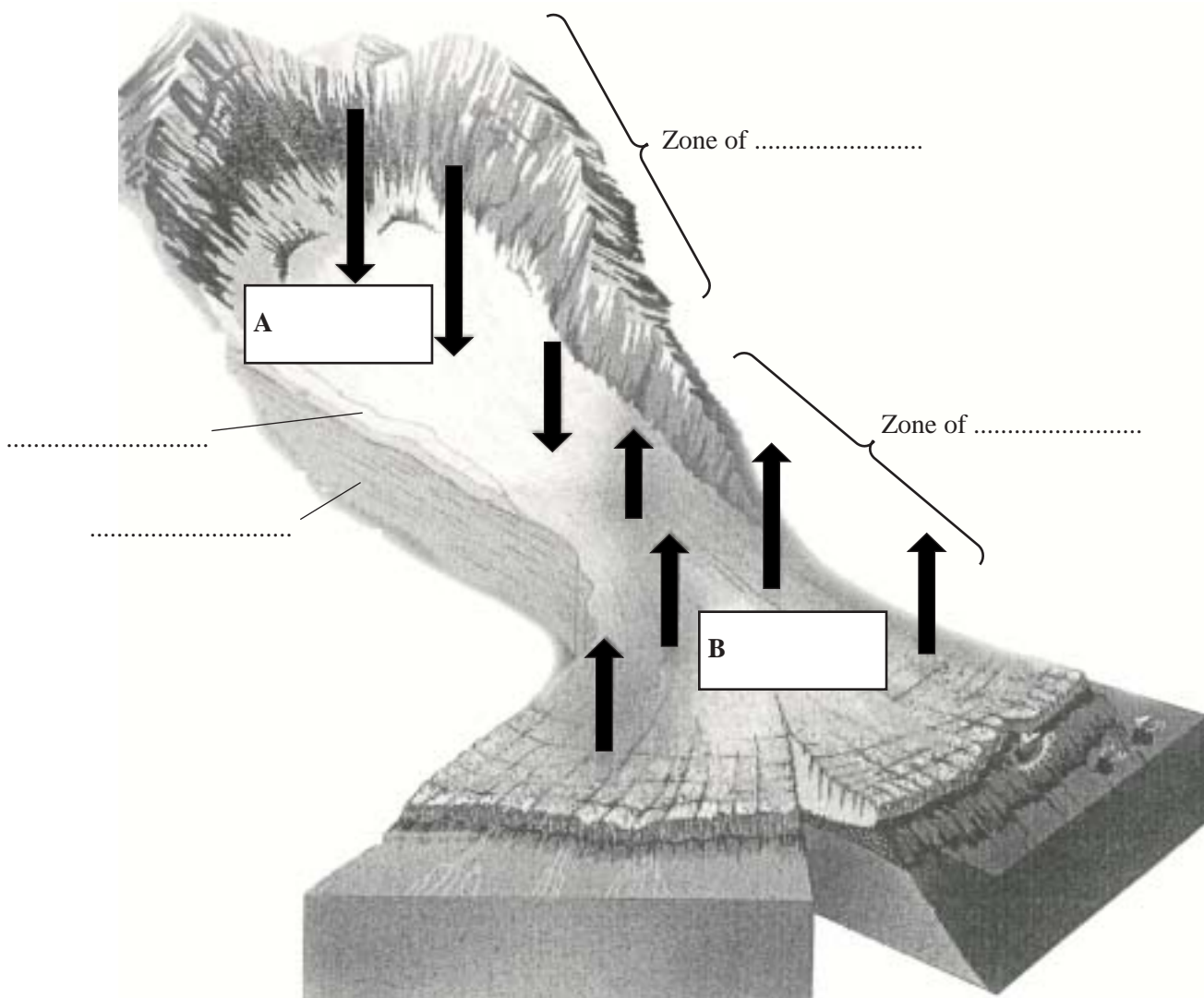


Figure 1

- (i) On the diagram:

At **A**, name **one** input into a glacier

At **B**, name **one** output from a glacier

(2 marks)

- (ii) Complete the other labels in **Figure 1** from the list below.

Ice	Snout	Firn	Accumulation	Ablation
-----	-------	------	--------------	----------

(4 marks)

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page, providing a template for handwriting practice or general writing. There are no margins, text, or other markings on the page.

[illegible]

.....

.....

.....

.....

.....

.....

.....

(7 marks)

(ii) Explain how the landform chosen in (b) (i) was formed by glacial erosion.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

(c) Look at **Figures 2a** and **2b**.

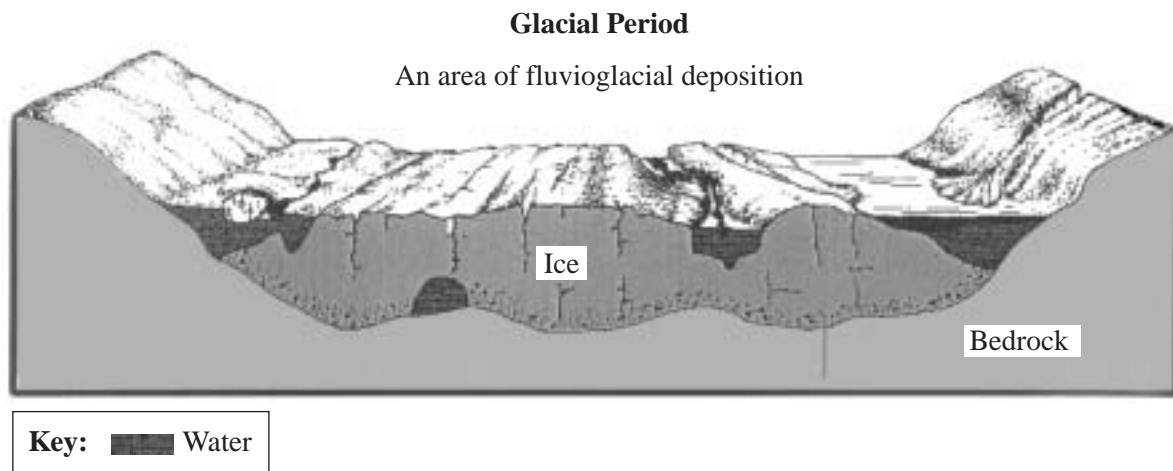


Figure 2a

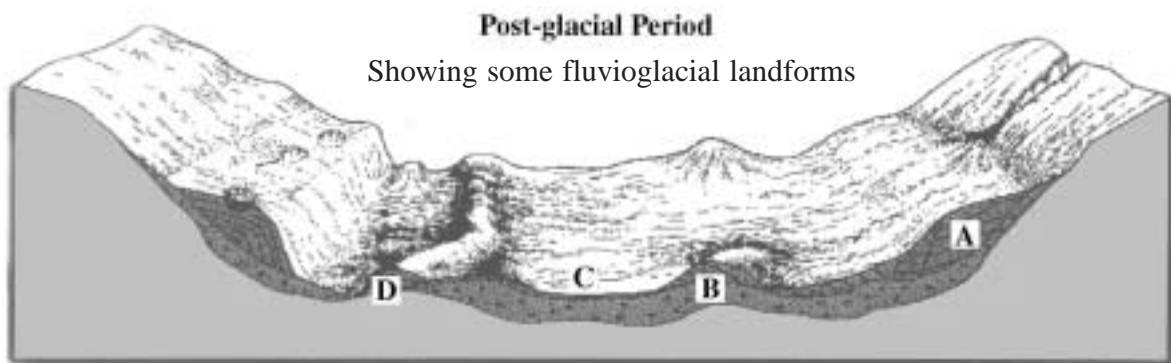


Figure 2b

Choose **one** of the landforms **A** to **D** in **Figure 2b**. Name and describe the landform. With the aid of **Figures 2a** and **2b**, explain how it was formed.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(8 marks)

(d) Look at **Figure 3** (insert), a photograph of a periglacial landform, labelled **X**.

(i) Using the photograph and your own knowledge, describe landform **X**.

The insert is not included in the question paper due to third-party copyright constraints.

The full copy of this paper can be obtained by ordering GGB2 from AQA Publications
Tel: 0161 953 1170

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

- (ii) Choose **any** periglacial landform (it could be the one in the photograph) and explain how it was formed.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

TURN TO PAGE 10 FOR THE NEXT QUESTION

Answer the question on Option **P** or **Q** or **R**.

OPTION Q COASTAL ENVIRONMENTS

2 (a) Look at **Figure 4**.

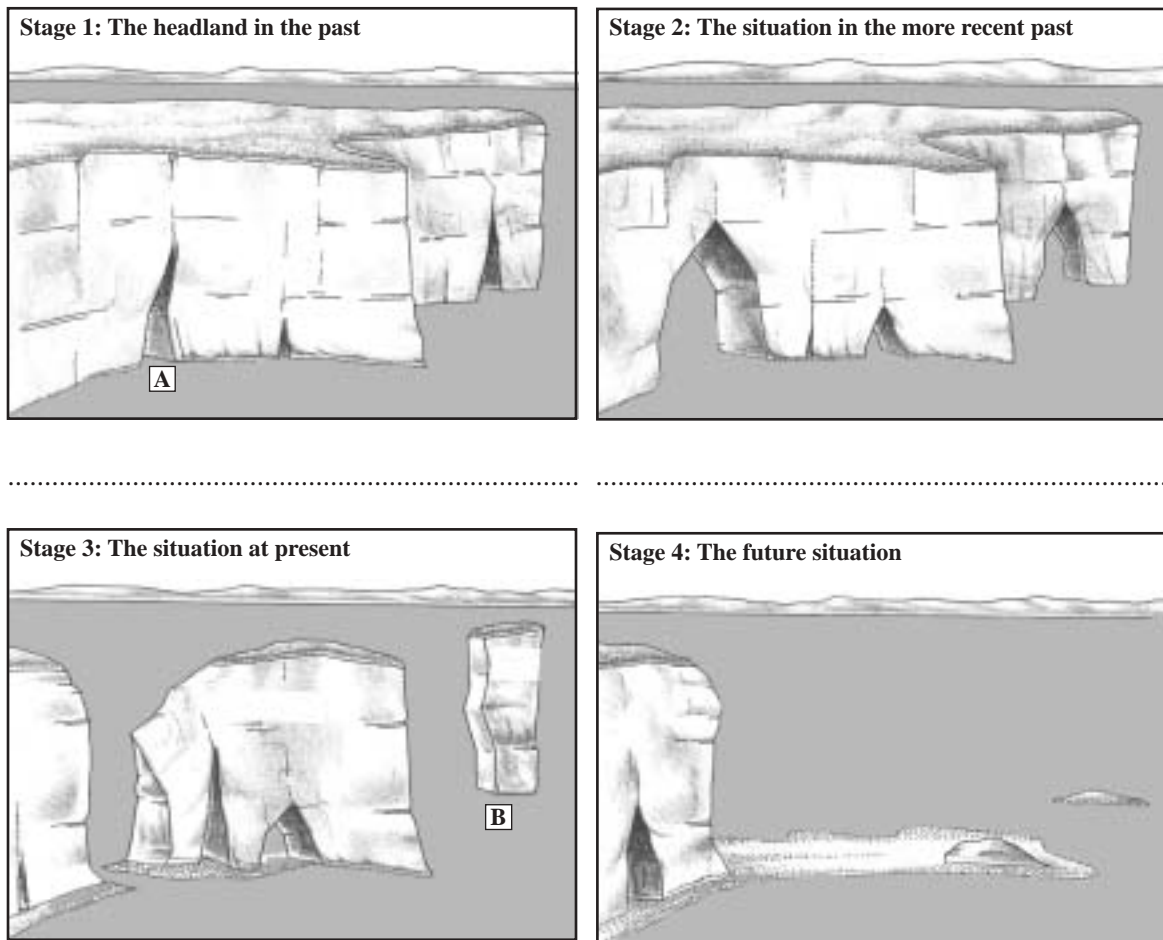


Figure 4

(i) Name the landforms **A** and **B** on **Figure 4**.

Landform A:

Landform B:

(2 marks)

(ii) Complete **Figure 4** by labelling each diagram from the list below.

Spit	Stump	Waves attack weakness in the rock	Arch of rock collapses	Arch formed by action of waves
------	-------	-----------------------------------	------------------------	--------------------------------

(4 marks)

With the help of **Figure 5** and your own knowledge, explain how the process of wave refraction can cause erosion to both sides of the headland.

This image shows a full page of white paper with ten horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and extend across the width of the page. There is no handwriting or other markings on the paper.

www.theallpapers.com

-
- This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

.....

.....

.....

.....

.....

.....

.....

(7 marks)

- (d) Explain how sea levels can change relative to land area, both locally and globally.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(8 marks)

(e) For **one** scheme of coastal management that you have studied:

(i) Describe why it was thought necessary to introduce a management scheme.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

(ii) Explain how the scheme is designed to overcome the problems outlined in (i).

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

50

TURN OVER FOR THE NEXT QUESTION

Answer the question on Option **P** or **Q** or **R**.

OPTION R URBAN PHYSICAL ENVIRONMENT (TEMPERATE URBAN AREAS)

3 (a) (i) Study **Figure 6**.

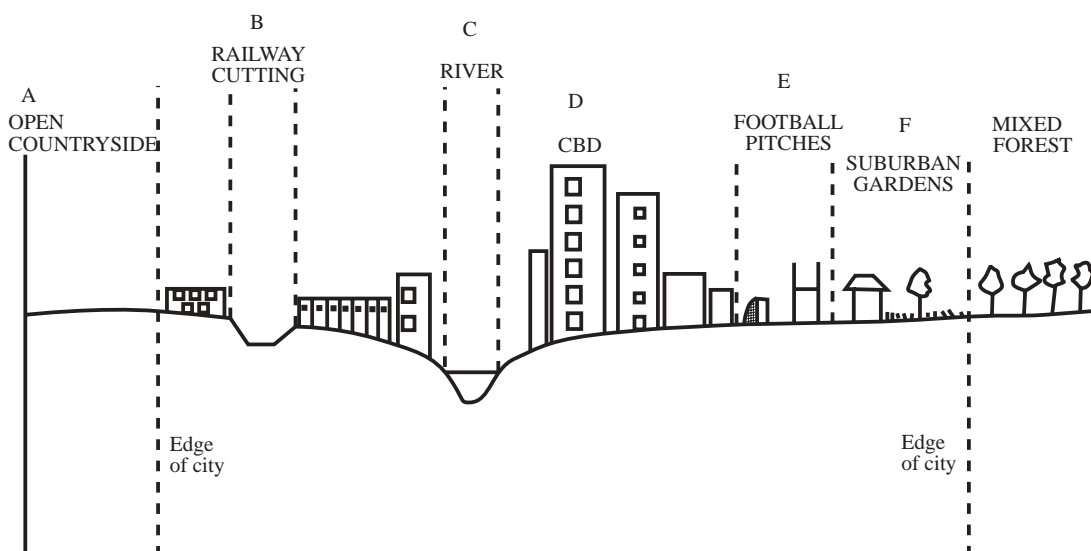


Figure 6

Put the correct letter from the diagram against the following statements.

Highest average wind speeds	
Most diverse ecology	
Least diverse ecology	
The area most likely to experience fog	
The highest temperatures	
The most-planned introduction of species	

(6 marks)

(ii) Using **Figure 6** and your own knowledge, explain how particulates and other factors lead to the formation of precipitation and fog in urban areas.

.....

.....

.....

.....

This image shows a full page of white paper with ten evenly spaced horizontal dotted lines, typical of primary school handwriting practice paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no other markings, text, or illustrations on the page.

(8 marks)

- (b) Look at **Figure 7** (insert).
- (i) Describe the distribution of temperature in the temperate city as shown in **Figure 7**.

The insert is not included in the question paper due to third-party copyright constraints.

The full copy of this paper can be obtained by ordering *GGB2* from AQA Publications
Tel: 0161 953 1170

included in the \square
to third-party \square
constraints. \square

This paper can be \square
dering *GGB2* \square
blications \square
53 1170 \square

(6 marks)

- (ii) Suggest reasons for the variations in temperatures shown in **Figure 7**.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

- (c) (i) Describe and explain the plant succession in part of an urban area following neglect of that area.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(8 marks)

- (ii) Using an example, describe what has happened to the plant succession in part of an urban area that has been made into an ecology conservation area.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

QUESTION 3 CONTINUES ON THE NEXT PAGE

- [illegible]

50

www.theallpapers.com