

Surname		Other Names	
Centre Number		Candidate Number	
Candidate Signature			

For Examiner's Use

General Certificate of Education
 June 2007
 Advanced Subsidiary Examination



**GEOGRAPHY (SPECIFICATION B)
 Unit 2 The Physical Options**

GGB2

Friday 25 May 2007 1.30 pm to 2.30 pm

You will need no other materials.
 You may use a calculator.

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 2.
 Option **Q**: Coastal Environments – Page 10.
 Option **R**: Urban Physical Environments (Temperate Urban Areas) – Page 18.
- Do all rough work in this book. Cross through any work you do not want to be 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 of the question you are answering.

Information

- The maximum mark for this paper is 50.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You will be marked 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 legibility of your handwriting and the accuracy of your spelling, punctuation and grammar will also be considered.

For Examiner's Use			
Question	Mark	Question	Mark
P	X	R	X
1		3	
Q	X		
2			
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) (i) In the context of glaciation, what is meant by the following terms?

Accumulation

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Ablation

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(6 marks)

(ii) Describe various ways in which glaciers move.

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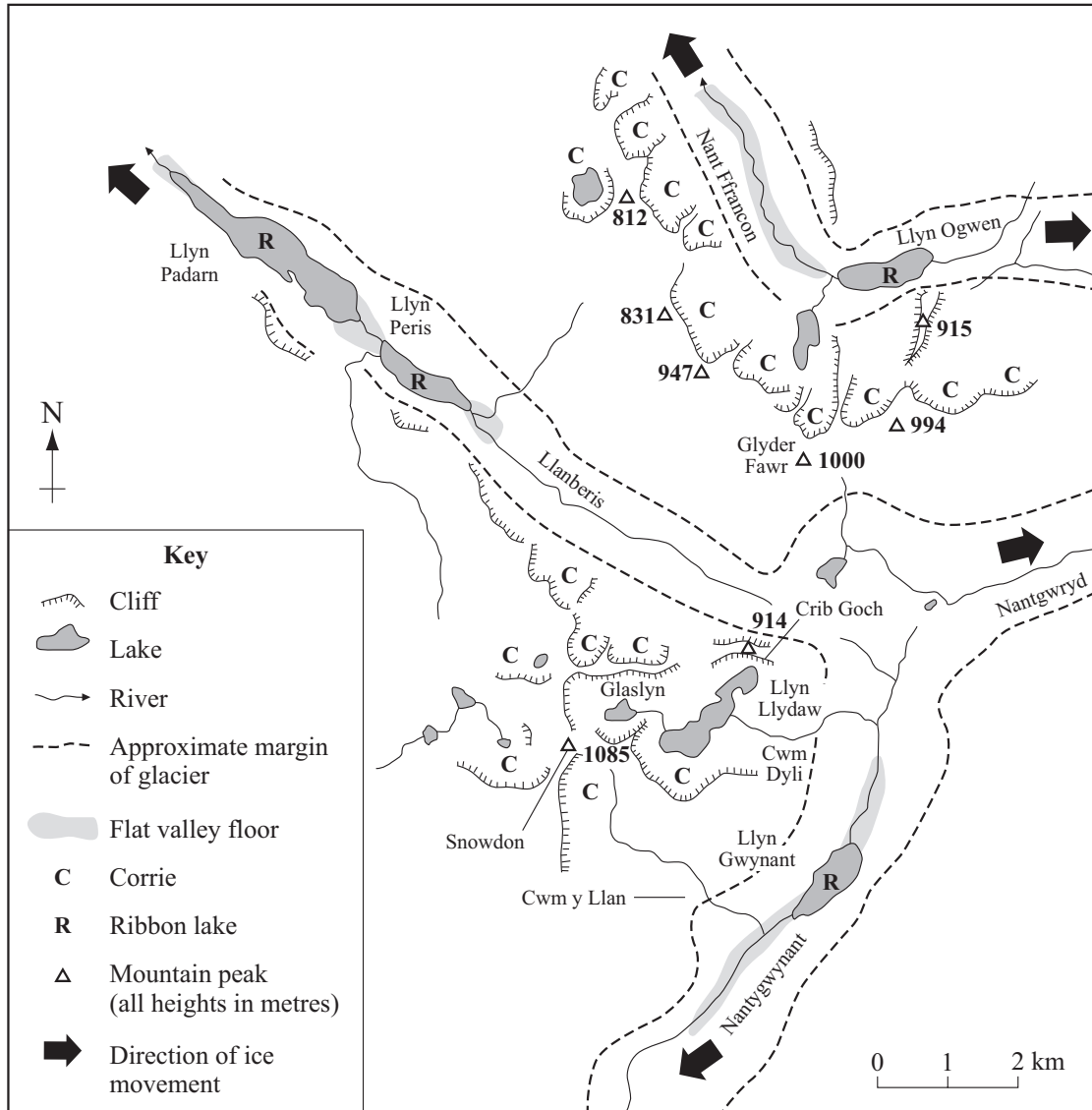
(7 marks)

Question 1 continues on the next page

Turn over ►

(b) Study **Figure 1** which shows the major landforms of part of Snowdonia.

Figure 1



(i) Describe the distribution of corries and of ribbon lakes.

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(6 marks)

(ii) Give reasons for the orientation of the corries shown.

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(5 marks)

Question 1 continues on the next page

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(7 marks)

Question 1 continues on the next page

Turn over ►

(e) Study **Figure 2**.

Figure 2

Colour photograph showing a glacial landform (pingo)
from Essential Landform Skills (page 61), Nelson Thornes,
2002 - not reproduced here due to third-party copyright
constraints.

(i) Using the **photograph only**, describe the landscape shown.

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(5 marks)

(ii) Suggest how landform **X** was formed.

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(6 marks)

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END OF OPTION P

Turn over for Option Q

Turn over ►

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

OPTION Q: COASTAL ENVIRONMENTS

- 2 (a) (i) Describe differences in form and frequency between constructive and destructive waves.

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(6 marks)

- (ii) How does the effect of destructive waves on a beach differ from that of constructive waves?

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(7 marks)

(b) In the context of marine erosion, what is meant by the following terms?

Abrasion

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Attrition

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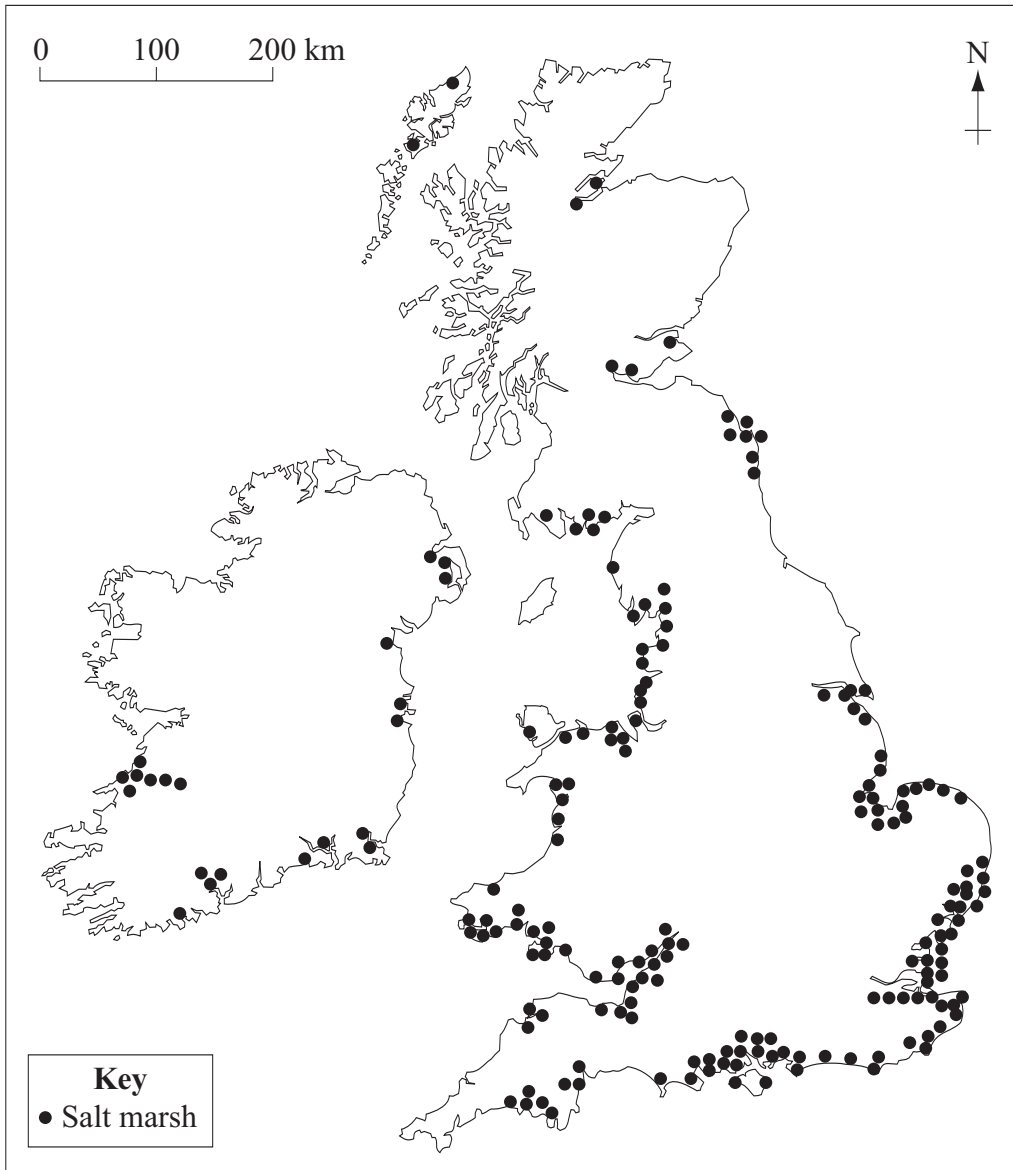
(6 marks)

Question 2 continues on the next page

Turn over ►

(c) Study **Figure 3** which shows locations where *Spartina anglica*, a common salt marsh grass, is found.

Figure 3



(i) Describe the distribution of this salt marsh grass.

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(d) Study **Figure 4**.

Figure 4



Using evidence from the **photograph only**, describe the sub-aerial processes taking place on this stretch of coastline.

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(5 marks)

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(6 marks)

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END OF OPTION Q

Turn over for Option R

Turn over ►

Net heat loss.
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(6 marks)

(ii) Using example(s), describe the diurnal (daily) and seasonal variations in the urban heat island effect.

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(7 marks)

(d) Study **Figure 6**.

Figure 6



(i) Using evidence from the **photograph only**, describe the various ecological niches that would attract flora and fauna to this area.

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(5 marks)

(iii) Explain why **one** named plant species has been deliberately introduced into urban areas.

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(4 marks)

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END OF QUESTIONS

QUESTION
NUMBER

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Turn over ►

QUESTION
NUMBER

Write the question number in the left-hand margin.

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There are no questions printed on this page

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Question 1 Figure 2: Landform Slides.

Question 2 Figure 3: Biological Records Centre, Centre for Ecology and Hydrology.

Question 3 Figure 5: *Urban Microclimates – Geofile*, Geoffrey Parsons, Nelson Thornes, 2003.

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