

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use

General Certificate of Education
January 2007
Advanced Level Examination



**GEOGRAPHY (SPECIFICATION A)
Unit 4**

GGA4

Wednesday 24 January 2007 1.30 pm to 3.00 pm

<p>You will need no other materials. You may use a calculator.</p>

Time allowed: 1 hour 30 minutes

Instructions

- Use blue or black ink or ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **three** questions in the spaces provided: **two** from **Section A** and **one** from **Section B**.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 90.
- Each question in Section A is worth 15 marks.
- Each question in Section B will be marked out of 30 and multiplied by 2 to give a mark out of 60.
- The marks for questions are shown in brackets.
- Section B of this unit assesses your understanding of the relationship between the different aspects of Geography.
- You are expected to use a calculator where appropriate.
- All questions should be answered in continuous prose 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.

Advice

- Where appropriate, sketch maps and diagrams should be used to illustrate answers and reference made to regional examples and case studies.
- You are advised to spend about 30 minutes on Section A and about 60 minutes on Section B.

For Examiner's Use			
Question	Mark	Question	Mark
1		4	
2		5	
3		6	
		×2	
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Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			

SECTION A

Answer **two** questions from this section.

1 COAST PROCESSES AND PROBLEMS**Total for this question: 15 marks**

Study **Figure 1** which shows Flamborough Head in North Yorkshire.

- (a) Label **Figure 1** to show four features resulting from marine erosion.

Figure 1



(4 marks)

(b) Outline how a wave-cut platform develops.

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(4 marks)

(c) To what extent does the leisure use of coastlines of natural beauty do more harm than good?

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(7 marks)

Turn over ►

2 GEOMORPHOLOGICAL PROCESSES AND HAZARDS**Total for this question: 15 marks**

- (a) Distinguish between the focus and the epicentre of an earthquake.

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(4 marks)

- (b) Study
- Figure 2**
- which shows the magnitude of earthquakes measured using the Richter scale and some possible effects.

Figure 2

Earthquake magnitude	Possible effects
1	
2	Normally only detected by instruments
3	
4	Faint tremor, causing little damage
5	Structural damage
6	Distinct shaking; less well-structured buildings collapse
7	
8	Large buildings destroyed
9	Ground seen to shake
10	

How are earthquakes measured using the Richter scale?

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(4 marks)

(c) To what extent is the impact of an earthquake dependent on its magnitude?

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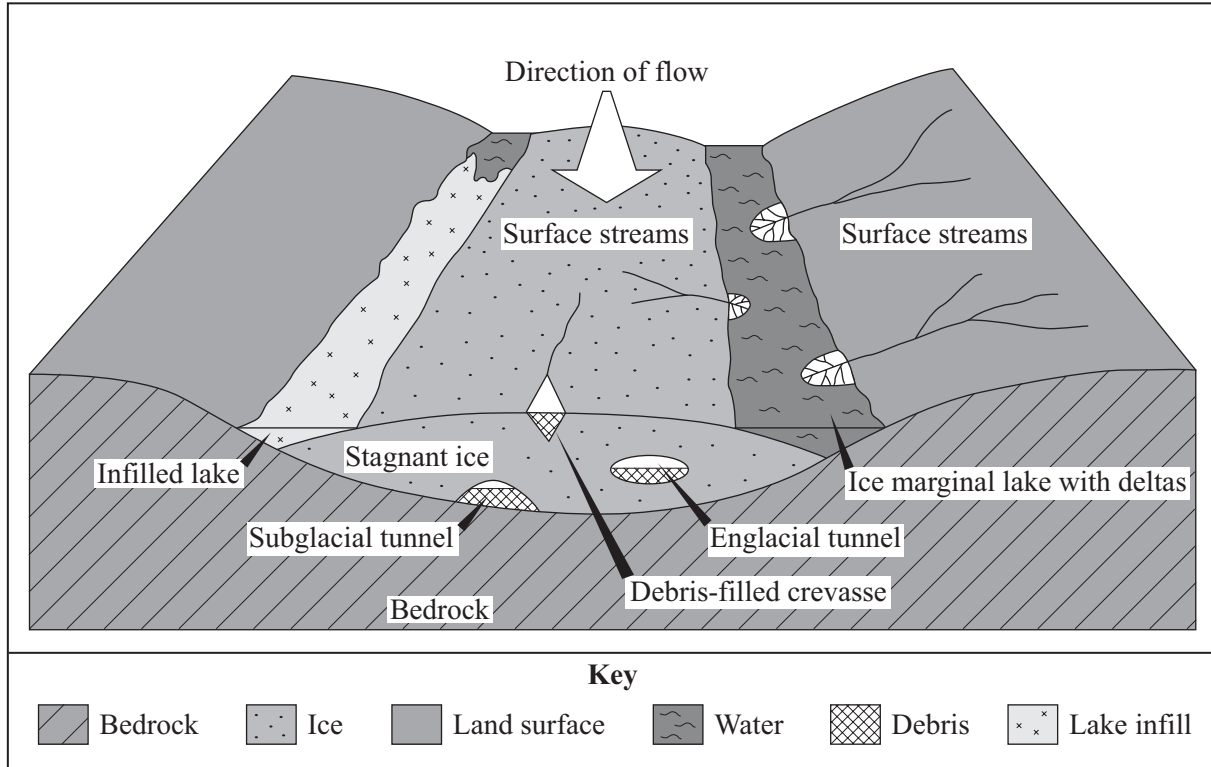
(7 marks)

3 COLD ENVIRONMENTS AND HUMAN ACTIVITY

Total for this question: 15 marks

Study **Figure 3** which shows a diagram of a lowland area during glaciation.

Figure 3



(a) Outline the formation of one or more fluvio-glacial features likely to be found in the landscape after glaciation.

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(4 marks)

(b) Distinguish between fluvio-glacial features and those derived from glacial deposition.

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(4 marks)

(c) Contrast the uses of areas of glacial erosion with those of glacial deposition.

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(7 marks)

SECTION B

Answer **one** question from this section.

Total for this question: 30 marks

Note to Candidate

You should bear in mind that essay Questions 4, 5 and 6 are synoptic in nature. In your response to these questions you are required to show your knowledge and understanding of different aspects of geography, the connections between these different aspects and, where relevant, of human perspectives upon geographical themes and issues.

- 4** To what extent is it best to work with nature in managing coasts?
(30 marks)
- 5** The impact of geomorphological processes on the physical environment is often underestimated compared with their impact on the human environment. How far do you agree with this statement?
(30 marks)
- 6** Discuss the view that land uses of cold environments are affected more by economic demands than environmental considerations.
(30 marks)

END OF QUESTIONS

QUESTION
NUMBER

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QUESTION
NUMBER

Write the question number in the left-hand margin.

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