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General Certificate of Education
June 2005
Advanced Level Examination



GEOGRAPHY
Unit 4

GGA4

Tuesday 14 June 2005 Afternoon Session

No additional materials are required.
You may use a calculator.

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 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.
- Mark allocations 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.
- 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.

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 | | | |
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SECTION A

Answer **two** questions from this Section.

1 COAST PROCESSES AND PROBLEMS

Total for this question: 15 marks

Study **Figure 1** which shows sea level changes in the last 20 000 years.

Graph showing sea level changes 20 000 years to present day - not reproduced here due to third-party copyright constraints.

(a) Outline one or more causes of sea level change.

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(4 marks)

(b) Outline the evidence for higher sea levels in the past which might be found in a coastal environment.

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(4 marks)

(c) Some models predict that sea levels will rise by up to 5 metres in the next 100 years. Comment on the consequences for coastal environments.

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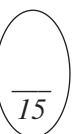
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(7 marks)

TURN OVER FOR THE NEXT QUESTION

Turn over ►



2 GEOMORPHOLOGICAL PROCESSES AND HAZARDS

Total for this question: 15 marks

Study **Figure 2** which shows a classification of mass movement.

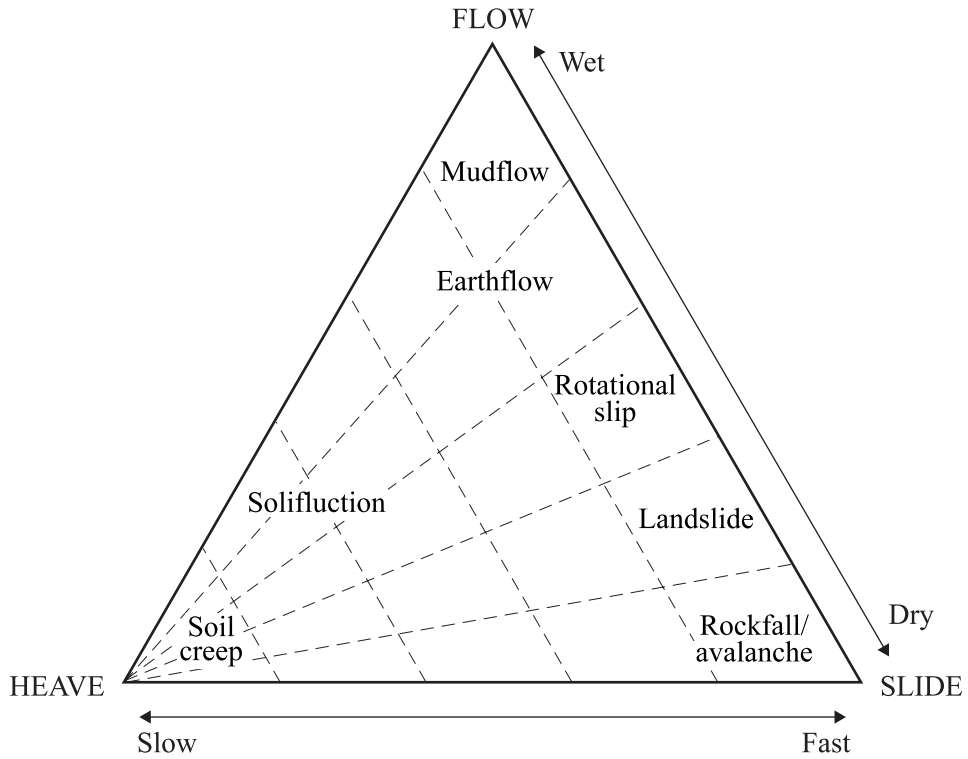


Figure 2

(a) Distinguish between flows and slides as types of mass movement.

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(4 marks)

(b) Outline the role of water content as an influence upon the incidence and speed of mass movement.

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(4 marks)

(c) Comment on the role of mass movement in the development of the physical landscape.

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(7 marks)

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3 COLD ENVIRONMENTS AND HUMAN ACTIVITY

Total for this question: 15 marks

Study **Figure 3** which shows the characteristic form taken by drumlins.

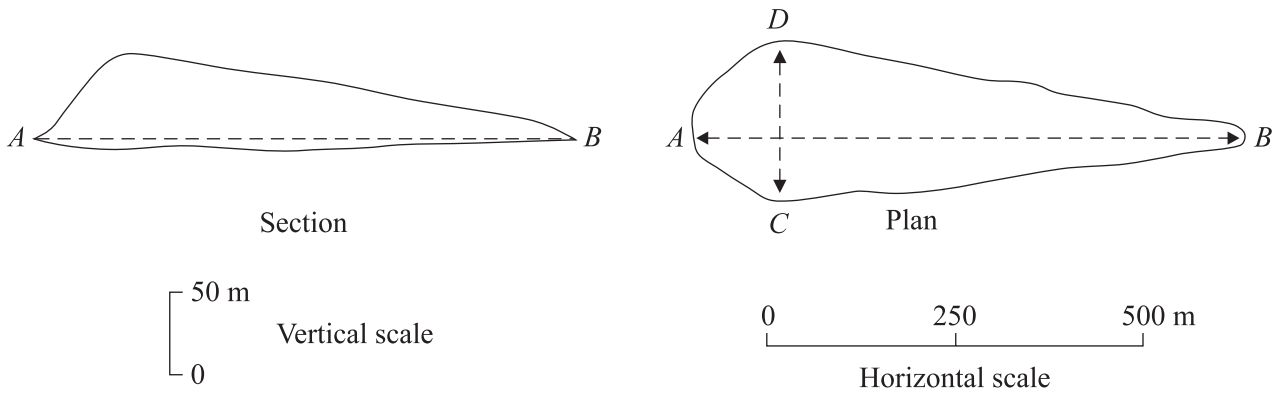


Figure 3

(a) Using **Figure 3** describe the section and plan form of a typical drumlin.

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(4 marks)

(b) Why are drumlins often found in lowland glaciated areas?

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(4 marks)

(c) Comment on the extent to which the physical environment constrains human activities in formerly glaciated areas.

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(7 marks)

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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** Understanding natural systems is the key to successful management of coasts. To what extent do you agree with this view? *(30 marks)*
- 5** Geomorphological hazards have the greatest impact on the poorest members of the world's population. Discuss the validity of this statement. *(30 marks)*
- 6** As time passes the development of cold environments will have to become more sustainable. To what extent do you agree with this view? *(30 marks)*

END OF QUESTIONS

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Figure 1: adapted from D. Waugh, *An Integrated Approach*, Nelson Thornes

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