

General Certificate of Education
June 2003
Advanced Level Examination



GEOGRAPHY (SPECIFICATION B)
Unit 4 Global Change

GGB4

Monday 9 June 2003 Afternoon Session

In addition to this paper you will require:

- an 8 page answer book.

Time allowed: 1 hour 30 minutes

Instructions

- Use blue or black ink or ball-point pen. Pencil should only be used for drawing.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is GGB4.
- Answer **two** questions: **one** from Section A and **one** from Section B.
- Give sketch maps, diagrams and specific examples, where appropriate.

Information

- The maximum mark for this paper is **50**.
- Mark allocations are shown in brackets.
- 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.

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SECTION A

Answer **one** question from this Section.

Each question carries 25 marks.

- 1 (a) Identify and describe the various types of humus that can exist in a soil. *(5 marks)*
- (b) With reference to **either** a brown earth **or** a podsol:
- (i) using only a labelled diagram show the main characteristics of the soil profile; *(5 marks)*
- (ii) explain how these characteristics have developed in the soil profile. *(7 marks)*
- (c) Using examples from any soils in the British Isles you have studied, explain how soils can be changed by human activity. *(8 marks)*

- 2 Answer the following by referring to **one** of the following hazards:

Either Tropical storms;

Or Volcanoes

- (a) Describe the global distribution of the hazard. *(5 marks)*
- (b) Using only a labelled diagram show the main characteristics of **either** a tropical storm **or** a volcano. *(5 marks)*
- (c) With reference to examples, describe the effects of the hazard on the physical and human environments. *(7 marks)*
- (d) Discuss the ways in which people and organisations manage the hazard and its effects. *(8 marks)*

SECTION B

Answer **one** question from this Section.

Each question carries 25 marks.

- 3 *“Over the past 30 years, many of the nations of the world, such as those in the European Union, have grouped together; and yet, over the same period, separatist pressures have often been present.”*

Discuss this statement.

Your answer should include:

- a description of the growth of groupings of nations;
- the reasons for such groupings;
- a discussion of the reasons for separatist pressures.

(25 marks)

- 4 *“Climatic change has been a feature in the British Isles since the Pleistocene Ice Age, and recent global warming is a continuation of this change.”*

Discuss this statement.

Your answer should include:

- a description of the fluctuations in temperature and precipitation in the British Isles since the Pleistocene Ice Age;
- the evidence for fluctuations in temperature and precipitation;
- a discussion of the reasons for recent global warming and of its effects.

(25 marks)

END OF QUESTIONS