

General Certificate of Education
January 2007
Advanced Level Examination



GEOGRAPHY (SPECIFICATION B)
Unit 4 Global Change

GGB4

Wednesday 24 January 2007 1.30 pm to 3.00 pm

For this paper you must have:

- 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.
- The marks for questions (or part questions) are shown in brackets.
- 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.

SECTION A

Answer **one** question from this section.

Each question carries 25 marks.

- 1** (a) Identify and describe various types of humus that can exist in a soil. (5 marks)
- (b) In the context of soils what do you understand by the term mineral constituents? (5 marks)
- (c) Explain how the process of ionic exchange operates within a soil. (7 marks)
- (d) Using examples from any soil(s) in the British Isles that you have studied, explain how soil can be changed by human activity. (8 marks)

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

either Earthquakes **or** Volcanoes.

- (a) Describe the global distribution of the hazard. (5 marks)
- (b) Outline reasons for the origin of the hazard. (5 marks)
- (c) With reference to one or more examples, describe the effects of the hazard on 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** Write an account of the long term climatic changes that have taken place in the British Isles including the phenomenon known as recent global warming.

In your account:

- describe the fluctuations in temperature and precipitation in the British Isles that have taken place since the Pleistocene Ice Age
- outline the evidence for such fluctuations in temperature and precipitation
- discuss the reasons for recent global warming, and its possible effects on the British Isles. *(25 marks)*

- 4** Write an account of the regional development issues that have been faced within **one** named country (excluding the United Kingdom) that you have studied.

In your account:

- outline the core-periphery relationship that exists in that country
- describe its effects on the national development of the country
- discuss the national government policies that have been put in place to address these effects. *(25 marks)*

END OF QUESTIONS

There are no questions printed on this page