

General Certificate of Education
January 2003
Advanced Level Examination



GEOGRAPHY (SPECIFICATION B)
Unit 4 Global Change

GGB4

Wednesday 29 January 2003 Morning 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.

SECTION A

Answer **one** question from this Section.

Each question carries 25 marks.

- 1** (a) What is meant by each of the following terms:
- (i) subtropical anticyclone?
 - (ii) inter-tropical convergence zone? *(6 marks)*
- (b) Answer the following with reference to the tropical regions of Africa with wet and dry seasons.
- (i) Describe the characteristics of temperature and precipitation. *(5 marks)*
 - (ii) Explain how the seasonal changes in atmospheric circulation lead to seasonal variations in the climate. *(8 marks)*
 - (iii) Using **only** an annotated diagram show the main features of the soil moisture budget graph for such an area. *(6 marks)*
- 2** Answer the following with reference to one major urban area which experiences multiple hazards.
- (a) Describe the effects of three of the hazards on that urban area. *(6 marks)*
 - (b) Describe the inter-relationship(s) between two different hazards in that area. *(5 marks)*
 - (c) Outline the responses adopted by individuals or groups to the hazards in that urban area. *(6 marks)*
 - (d) Discuss the extent to which the hazards can be predicted and/or prevented. *(8 marks)*

SECTION B

Answer **one** question from this Section.

Each question carries 25 marks.

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

In your account:

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

- 4 Write an account of the relationship between tectonic processes and global structures.

In your account:

- describe the characteristics of tectonic plates;
 - outline the evidence (biological and geological) that supports the theory of plate tectonics;
 - discuss the relationship between tectonic processes and the global structures that result.
- (25 marks)*

END OF QUESTIONS