General Certificate of Education
June 2008
Advanced Subsidiary Examination

GEOGRAPHY (SPECIFICATION B)   **GGB1**
Unit 1   The Dynamics of Change

AQA
ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Tuesday 20 May 2008   1.30 pm to 2.30 pm

For this paper you must have:
• the colour insert (enclosed).
You may use a calculator.

Time allowed: 1 hour

Instructions
• Use black ink or black ball-point pen. You may use pencil for maps, diagrams and graphs.
• Fill in the boxes at the top of this page.
• Answer **all** questions.
• You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.
• Do all rough work in this book. Cross through any work you do not want to be marked.
• Give sketch maps, diagrams and specific examples, where appropriate.

Information
• The maximum mark for this paper is 60.
• The marks for questions are shown in brackets.
• You are expected to use a calculator 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.

Answer **all** questions in the spaces provided.

Total for this question: 17 marks

1 (a) Study **Figure 1**.

Figure 1

Demographic variable	Country A	Country B	Country C	Country D
Crude birth rate/000	15	17	28	12
Crude death rate/000	6	7	8	11
Natural increase %	0.9	1	2	0.1
Infant mortality rate/000	31	15.6	66	5.7
Total fertility rate	1.8	2	3.3	1.7
% Population aged under 15	23	26	40	19
% Population aged over 65	7	6	3	16
Life expectancy at birth Male & *Female*	69 *71*	67 *74*	59 *59*	75 *80*

Arrange the countries in order of level of development.

1 .... Most developed

2 ....

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4 .... Least developed

Suggest reasons for your chosen order.

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(7 marks)

(Extra space) ....

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Question 1 continues on the next page

Turn over ▶

1 (b) Many governments and other agencies have attempted to alter the balance between population and resources. With reference to examples, describe methods used to influence the level of resources and population growth.

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Turn over for the next question

$\overline{17}$

Total for this question: 16 marks

2 (a) Using examples, suggest reasons for the overall decline in manufacturing jobs in the UK over the last 30 years.

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2 (b) Study **Figures 2a** and **2b** on the insert which show features typical of Science Parks in the UK. Describe the characteristics of industries that have developed in Science Parks and suggest why such industries have found these locations attractive.

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(8 marks)

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Turn over ▶

Total for this question: 10 marks

3   With reference to an investigation that you have undertaken:

3   (a)   State **one** hypothesis that you established and describe a method of analysis that you used to test that hypothesis.

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(5 marks)

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3 **(b)** How did your results help to improve your understanding of the topic or the environment investigated?

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Turn over for the next question

Turn over ▶

Total for this question: 17 marks

4 (a) How would the following factors influence the lag time of a storm hydrograph?

4 (a) (i) Vegetation cover

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(3 marks)

4 (a) (ii) Weather conditions before the storm

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(3 marks)

4 (b) How do variations in discharge and velocity influence a river's ability to pick up and transport materials?

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(6 marks)

(Extra space) ....

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Question 4 continues on the next page

Turn over ▶

4 (c) Draw a diagram to show how processes of erosion and deposition affect the **cross-section of a river channel**.

(5 marks)

17

END OF QUESTIONS

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Colour Insert

Turn over ▶

Figure 2a

Figure 2b