Surname		Other Names	
Centre Number			Candidate Number									
Candidate Signature												

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General Certificate of Education
June 2004
Advanced Subsidiary Examination

ASSESSMENT and QUALIFICATIONS ALLIANCE

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

Monday 7 June 2004 Afternoon Session

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

Time allowed: 1 hour

Instructions

- Use blue or black ink or 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 in the space provided.
- Do all rough work in this book. Cross through any work you do not want marked.
- Give sketch maps, diagrams and specific examples, where appropriate.
- If there is not enough space for your answer(s), use the extra page(s) at the end of the book. If you do this, make sure that you show the number of the question you are answering.

Information

- The maximum mark for this paper is 60.
- Mark allocations are shown in brackets.
- 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.

For Examiner's Use			
Number	Mark	Number	Mark
1			
2			
3			
4			
Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			

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

1 **Total for this question: *17 marks***

(a) State **two** factors that influence the rate of interception in the drainage basin hydrological system.

1 .....

2 .....

(2 marks)

(b) (i) What is meant by the lag time in relation to a storm hydrograph?

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(2 marks)

(ii) How would slope angle and drainage density in the catchment influence the lag time of a storm hydrograph?

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(3 marks)

NO QUESTIONS APPEAR ON THIS PAGE

QUESTION 1 CONTINUES ON THE NEXT PAGE

(c) Study **Figure 1a** and **Figure 1b**.

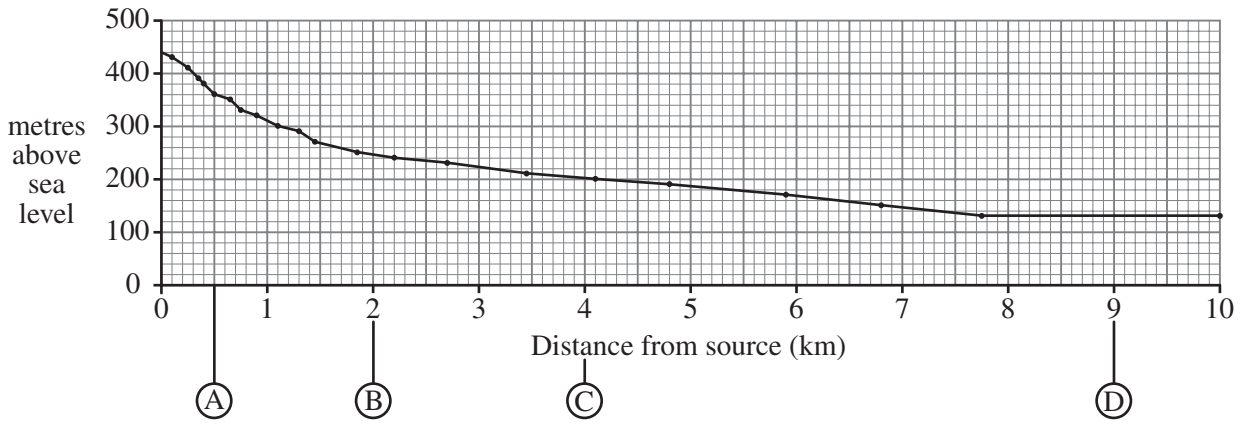

Figure 1a

Long Profile

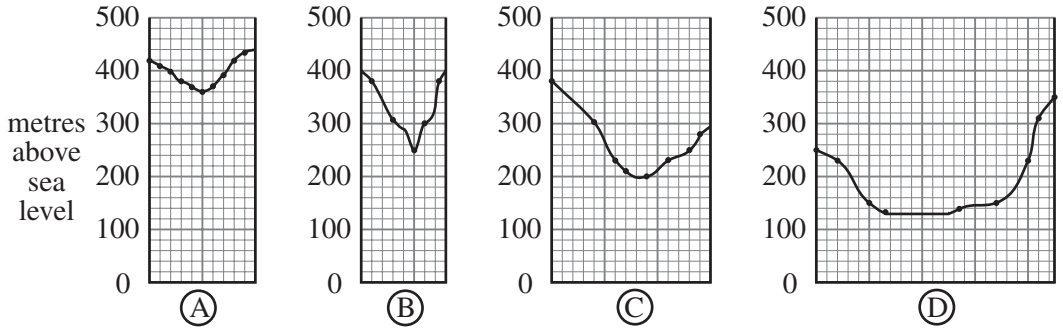

Figure 1b

Cross Valley Profiles

Describe the variations in the river's long profile and valley cross profiles and suggest reasons for these changes.

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(10 marks)

17

TURN OVER FOR THE NEXT QUESTION

2 **Total for this question: *17 marks***

(a) (i) Give **one** example of:

a renewable energy resource;

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a non-renewable energy resource.

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(2 marks)

(ii) Describe **two** advantages of using renewable resources to generate energy.

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(4 marks)

(iii) With reference to **either** an MEDC **or** an LEDC, choose **one** energy system based upon the use of a non-renewable resource and suggest reasons why that system was developed.

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(4 marks)

(b) Choose **one** of the following issues associated with the harnessing of energy:

acid deposition; the emission of greenhouse gases; deforestation in LEDCs.

Describe the nature of the issue and its causes, and comment on the strategies that have been implemented to tackle this issue.

Chosen issue: .....

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(7 marks)

17

TURN OVER FOR THE NEXT QUESTION

3 **Total for this question: *16 marks***

(a) **Figure 2** shows the level of economic and social deprivation by London borough (1991).

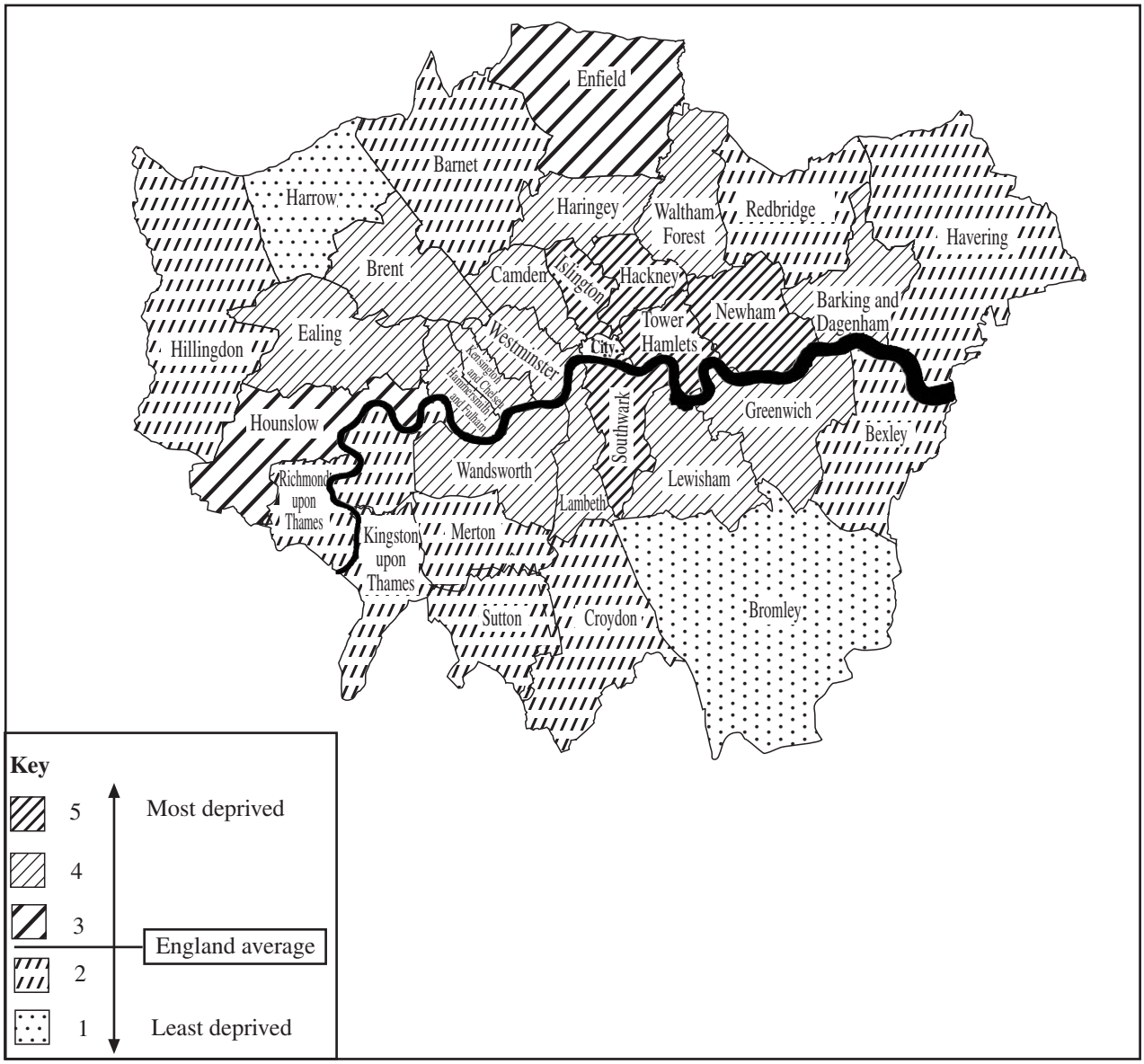

Figure 2

Describe the pattern of segregation according to the level of deprivation shown on **Figure 2**.

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(4 marks)

(b) Describe how social segregation by age has changed in urban areas in the last 30 years.

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(5 marks)

QUESTION 3 CONTINUES ON THE NEXT PAGE

(c) What is meant by the term Foreign Direct Investment (FDI)?

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(2 marks)

(d) How does overseas investment influence a region's economy and employment?

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(5 marks)

16

4 **Total for this question: *10 marks***

Using example(s) from a human, physical or human/physical fieldwork investigation that you have undertaken:

(a) state **one** hypothesis and describe the method(s) used to collect data required to test that hypothesis.

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(5 marks)

(b) name **one** technique of data analysis and describe how it was used.

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(5 marks)

END OF QUESTIONS

10

QUESTION NUMBER

Write the question number in the left-hand margin.

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QUESTION NUMBER

Write the question number in the left-hand margin.

THERE ARE NO QUESTIONS PRINTED ON THIS PAGE

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Question 3: Figure 2: Defra. © Crown Copyright.