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Centre Number						Candidate Number					
Candidate Signature											

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General Certificate of Education  
January 2004  
Advanced Subsidiary Examination



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

**GGB1**

Tuesday 13 January 2004 Morning Session

**No additional materials are required.**

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) What is meant by the term abrasion in relation to river studies?

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*(2 marks)*

- (b) Describe how variations in velocity affect the ability of a river to pick up and transport material.

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*(5 marks)*

- (c) With the aid of a labelled diagram(s), show how the processes of erosion and deposition influence the shape of a river channel.

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(10 marks)

**TURN OVER FOR THE NEXT QUESTION**

2

**Total for this question: 16 marks**

- (a) What is meant by the term optimum population?

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(2 marks)

- (b) Many governments and other agencies have attempted to change the imbalance between population and resources.

Describe **two** attempts to improve resource availability.

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(6 marks)

Study **Figure 1** which shows estimated changes in the level of under-nourishment between 1990 and 1999 for selected countries.

*Figure which shows estimated changes in the level of under-nourishment between 1990 and 1999 for selected countries – is not reproduced here, due to third-party copyright constraints.*

Source: Food and Agriculture Organization of United Nations  
<http://www.fao.org/DOCREP/003/Y1500E/1500e05.jpg>

**Figure 1**

- (c) Describe the pattern of changes shown in **Figure 1**.

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(4 marks)

(d) What problems are associated with the management of nuclear waste?

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(4 marks)

16

3

Total for this question: 17 marks

- (a) Study **Figure 2** which shows changes in employment in manufacturing in the regions of the UK 1990–1999.

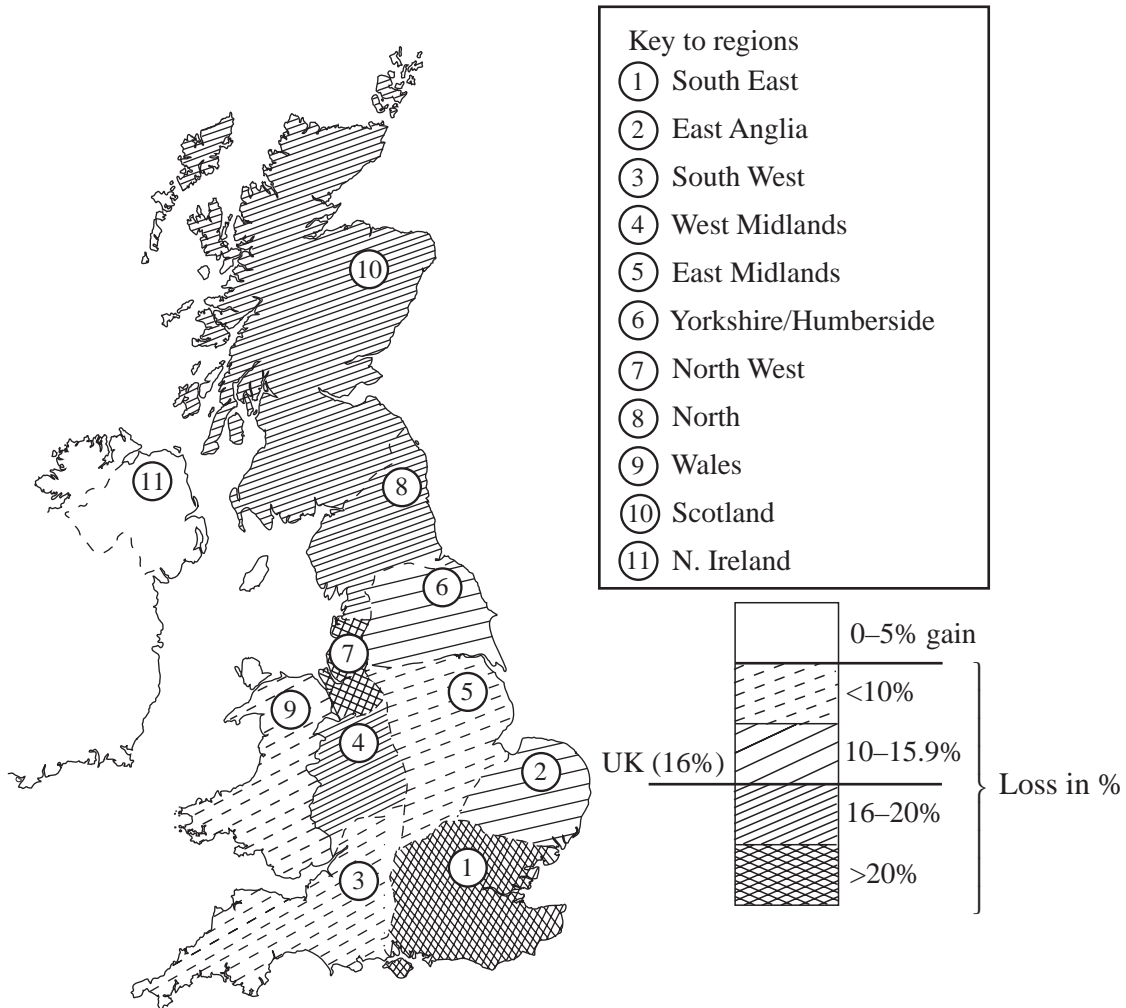


Figure 2

- (i) Give **three** factors that may have influenced the overall decline in the number of manufacturing jobs in the UK.

1. ....
2. ....
3. ....

(3 marks)

(ii) Why has the scale of decline varied between regions of the UK?

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(4 marks)

(b) Some regions have an increase in total employment despite losses in manufacturing; this will mainly reflect changes in service sector employment.

With reference to examples, suggest reasons why some regions have had greater growth in service sector employment than others.

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(5 marks)



- (c) The number of females in employment has increased considerably in the last 30 years; apart from changes in the employment structure, what other factors have contributed to greater female participation in the workforce?

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(5 marks)

4

**Total for this question: 10 marks**

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

- (a) Describe the aim of the investigation and state **two** hypotheses that were used in your study.

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*(4 marks)*

- (b) How did the results that you obtained help improve your understanding of the topic studied?

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*(6 marks)*

QUESTION  
NUMBER

Write the question number in the left hand margin.

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Question 2: Figure 1: Food and Agricultural Organisation of the United Nations. [www.fao.org](http://www.fao.org)

Question 3: Figure 2: Neil Punnett. Geofile "Changing Employment Patterns". Nelson Thornes.