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Centre Number		Candidate Number	
Candidate Signature			

For Examiner's Use

General Certificate of Education
January 2007
Advanced Subsidiary Examination



GEOGRAPHY (SPECIFICATION A)
Unit 1 Core Concepts in Physical Geography

GGA1

Monday 15 January 2007 9.00 am to 10.00 am

<p>For this paper you must have:</p> <ul style="list-style-type: none"> the colour insert (enclosed). <p>You may use a calculator.</p>
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For Examiner's Use			
Question	Mark	Question	Mark
1		3	
2			
Total (Column 1)		→	
Total (Column 2)		→	
TOTAL			
Examiner's Initials			

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.
- Answer the questions in the spaces provided.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 60.
- The marks for questions are shown in brackets.
- 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.

1 (a) **Figures 1a** and **1b** on the insert are photographs of the upper course of the River Eea in Cumbria taken on a day in July 2005.

(i) Describe the channel of the river in **Figure 1a**.

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(2 marks)

(ii) **Figure 1b** is located some 500 metres downstream from **Figure 1a**. Identify a change in the river between the two locations and suggest a reason why this might have occurred.

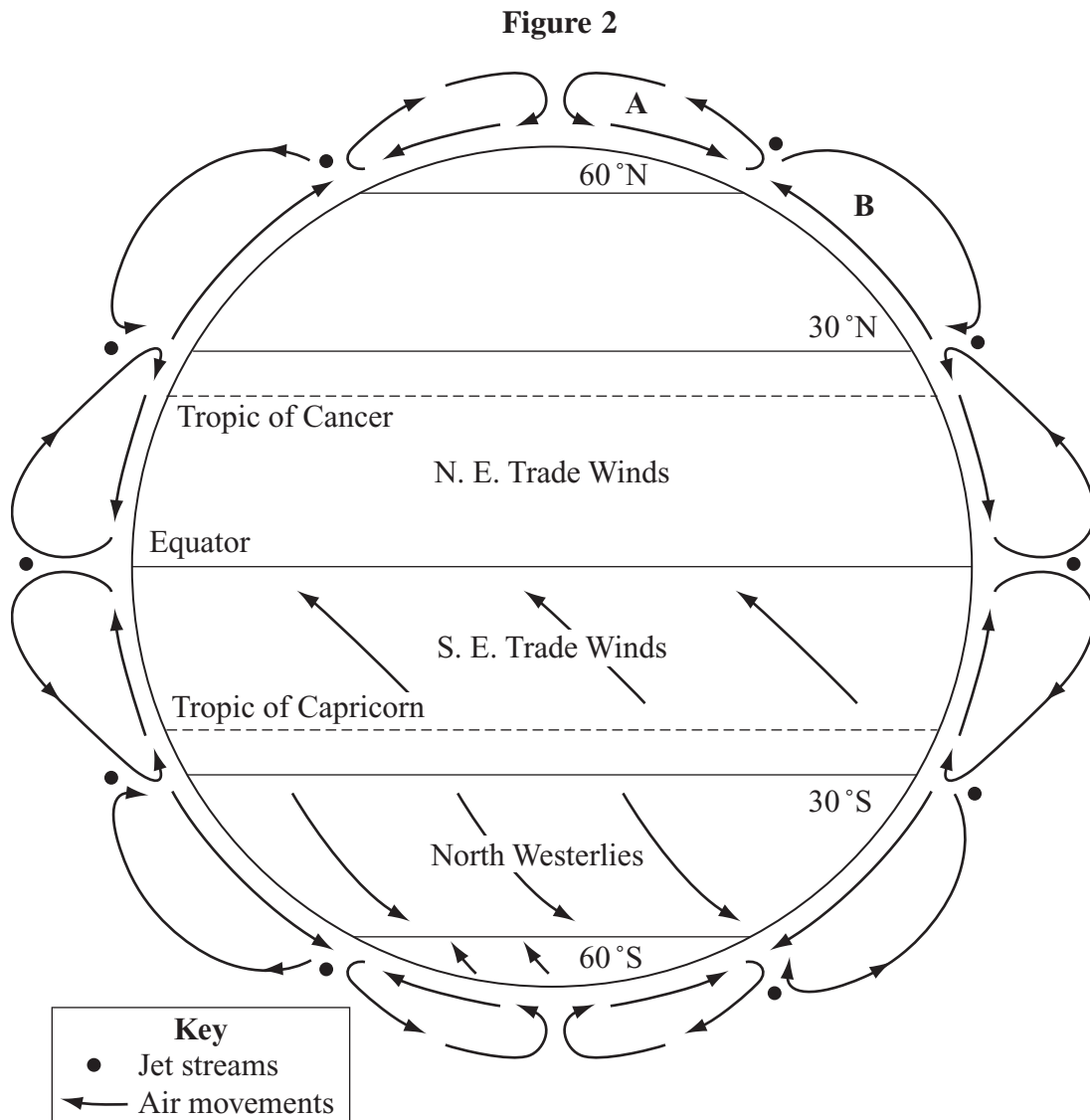
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(2 marks)

(b) How and why does the bedload vary between the source and the mouth of a typical river?

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- 2 (a) Study **Figure 2**, which is a partially completed diagram showing global air movements.



- (i) Complete **Figure 2** to show surface wind direction arrows for the northern hemisphere. (2 marks)
- (ii) Name the cells at **A** and **B**.

A

B

(2 marks)

(b) Outline **one or more** ways in which the climate of a Cool Temperate Western Maritime area, such as the United Kingdom, is influenced by its global position.

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(6 marks)

(c) How might the climatic changes predicted to result from global warming impact on human activity in the United Kingdom?

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(10 marks)

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Turn over for the next question

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3 (a) How can a biome be distinguished from an ecosystem?

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(2 marks)

(b) Study **Figure 3**, which shows tropical rainforest data for selected countries.

Figure 3

		Forest area (000 ha)	Forest as a % of total area	Forest change (000 ha) 1990–2000	% change 1990–2000
AFRICA	Cameroon	23 858	51.3	–222	0.94
	Congo	22 060	64.6	–17	0.08
SOUTH EAST ASIA	Papua New Guinea	30 601	67.6	–113	0.36
	Malaysia	19 292	58.7	–237	1.20
SOUTH AMERICA	Brazil	543 905	64.3	–2309	0.42
	Guyana	16 879	78.5	–49	0.29

(i) Outline the differences in loss of rainforest between 1990 and 2000 in the countries shown in **Figure 3**.

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(2 marks)

(ii) Suggest reasons for the loss of rainforest between 1990 and 2000.

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(6 marks)

(c) How is the physical environment of the tropical rainforest disrupted and changed by deforestation?

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(10 marks)

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END OF QUESTIONS

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Question 2 Figure 2: David Flint & Neil Punnett, *Geography and Change, Teacher's Resource*, Hodder & Stoughton (1997)
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Question 3 Figure 3: Sally Garrinton, *Problems and solutions in the tropical rainforest*, Geofile Online, (April 2005), Nelson Thornes.

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Colour Insert

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Figure 1a



Figure 1b



