

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

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General Certificate of Education
 January 2006
 Advanced Subsidiary Examination



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

GGA1

Friday 13 January 2006 9.00 am to 10.00 am

For this paper you must have:

- the colour insert (enclosed)

You may use a calculator.

For Examiner's Use			
Number	Mark	Number	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 marked.

Information

- The maximum mark for this paper is 60.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers. All questions should be answered in continuous prose. Quality of Written Communication will be assessed in all answers.

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

1 Study **Figure 1**, on the insert, showing the River Wyre in Lancashire, in its lower course.

(a) (i) Describe the channel of the River Wyre.

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(2 marks)

(ii) Identify **one** process operating in the channel at this point and outline why this process occurs here.

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(3 marks)

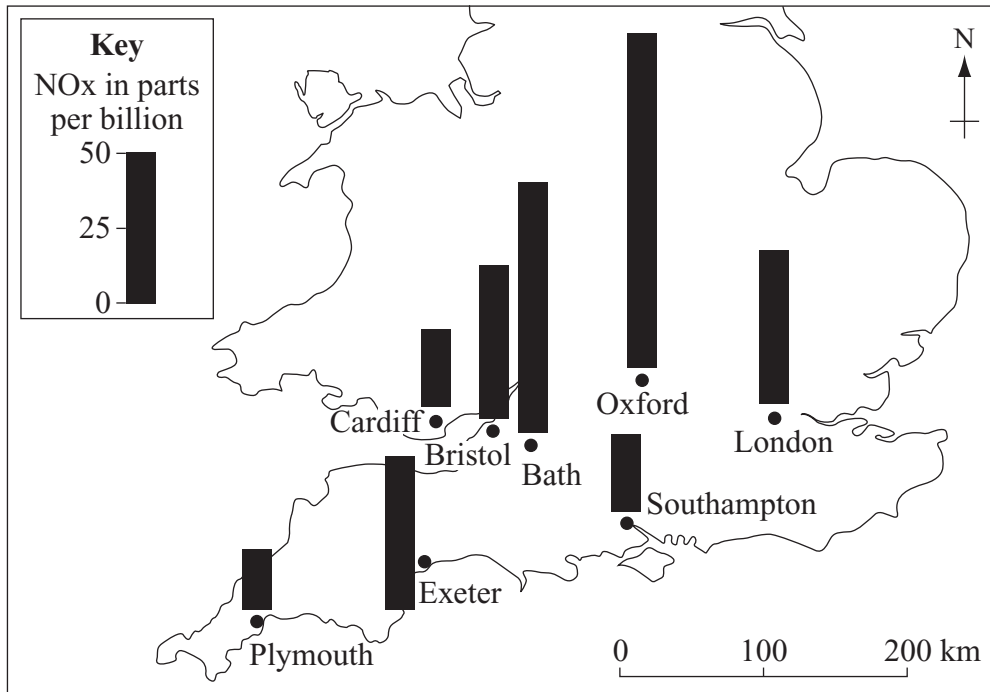
(b) Outline how the relative importance of river processes changes along its long profile.

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- 2 Nitrogen oxides (NO_x) are an atmospheric pollutant caused primarily by road traffic emissions.

Figure 2 shows the levels of NO_x in the air at selected locations in southern Britain during summer 2004, over a 24 hour period.

Figure 2



- (a) (i) Describe the pattern shown in **Figure 2**.

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(2 marks)

(ii) Suggest physical factors that might explain the pattern identified in (a)(i).

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(3 marks)

(b) Outline strategies that have been introduced to improve the air quality in a city or cities that you have studied.

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(5 marks)

Question 2 continues on the next page

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- (c) Explain how the urban landscape can modify aspects of local climate, other than air quality.

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(10 marks)

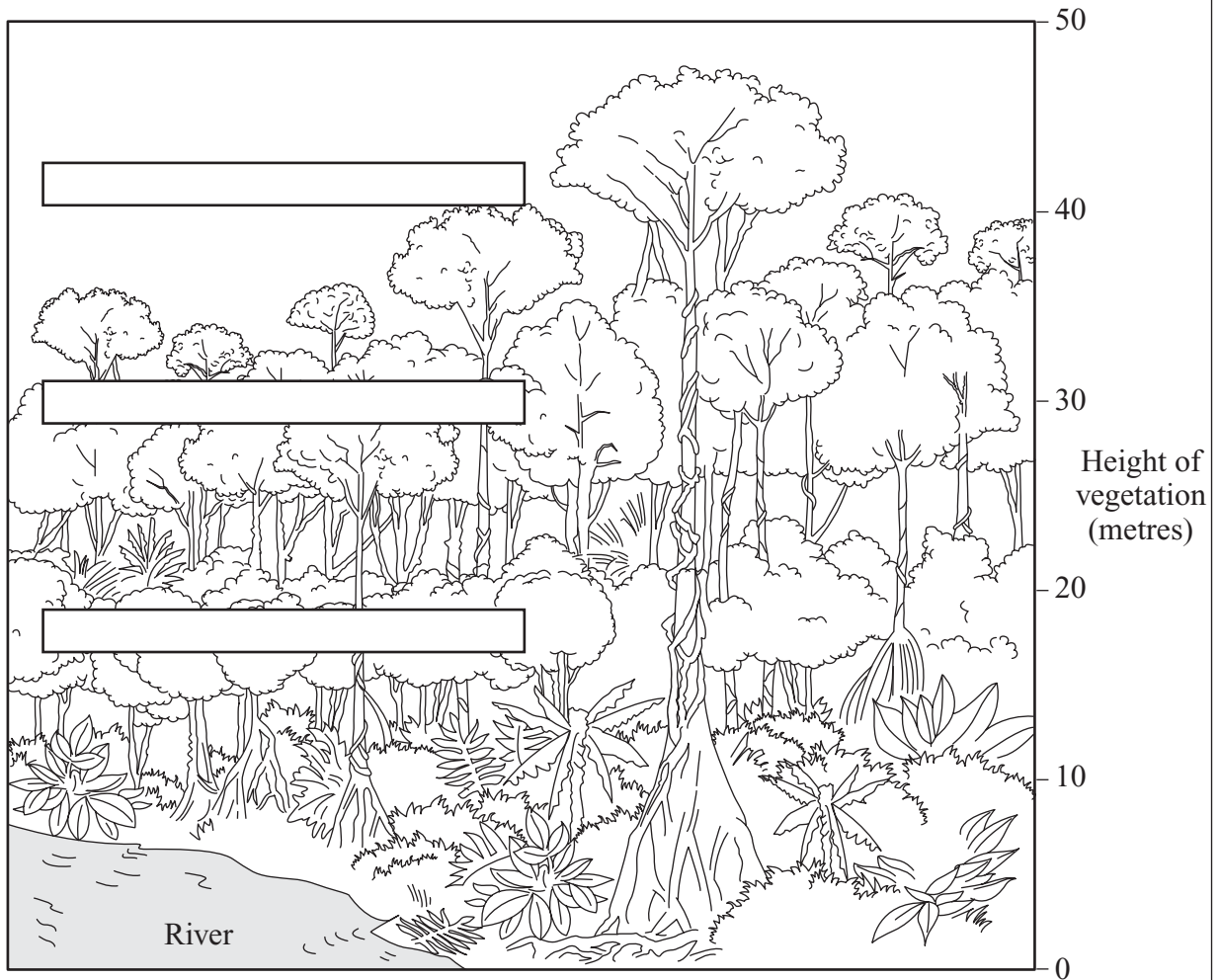
20

Turn over for the next question

Turn over ►

3 Study **Figure 3**, which shows some of the ways that the vegetation has adapted to the physical conditions in the tropical rainforest biome.

Figure 3



(a) (i) In the boxes provided on the diagram, name the layers of vegetation. (2 marks)

(ii) Why does the vegetation in tropical rainforest develop a layered structure?

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(3 marks)

(iii) Explain how different types of vegetation have adapted to the physical conditions within the rainforest.

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(5 marks)

(b) Examine the impact of deforestation in tropical rainforests.

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Question 3 continues on the next page

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(10 marks)

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END OF QUESTIONS

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Question 2 Figure 2: *Autogas News*, August 2004, Calor Gas Ltd.

Question 3 Figure 3: adapted from D WAUGH, *Key Geography for GCSE, Book 2: Teachers' Resource Guide* (1994), Nelson Thornes.

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Colour insert

Figure 1
(for use with Question 1)

