Surname		Other Names	
Centre Number			Candidate Number				
Candidate Signature									

For Examiner's Use

General Certificate of Education
June 2008
Advanced Subsidiary Examination

ASSESSMENT and QUALIFICATIONS ALLIANCE

GEOGRAPHY (SPECIFICATION A) GGA1
Unit 1 Core Concepts in Physical Geography

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.

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.

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

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

1 (a) Distinguish between lateral and vertical erosion.

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(2 marks)

1 (b) **Figure 1** (on the insert) is an aerial photograph showing a stretch of the valley of the River Lune, east of Lancaster.

1 (b) (i) Describe the channel features of the River Lune shown in **Figure 1**.

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(3 marks)

1 (b) (ii) Draw a labelled diagram(s) to show how and why meanders migrate.

(5 marks)

Question 1 continues on the next page

1 (c) Explain the formation of channel landforms typically found in the upper course of a river.

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(10 marks)

(Extra space) .....

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2 (a) (i) How may the urban landscape modify the wind?

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(2 marks)

2 (a) (ii) Explain why the urban environment affects temperatures within a city.

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(3 marks)

Question 2 continues on the next page

2 (b) **Figure 2** is an extract from *The Sunday Times*, 25 June 2006, about the air quality in Beijing for athletes participating in the 2008 Olympic Games.

Figure 2

Figure 2 is not reproduced here due to third-party copyright constraints.

Explain how human activities affect urban air quality in large cities during the summer months.

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(5 marks)

(Extra space) .....

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2 (c) Examine the evidence for and possible causes of global warming.

(10 marks)

(Extra space) .....

Question 2 continues on the next page

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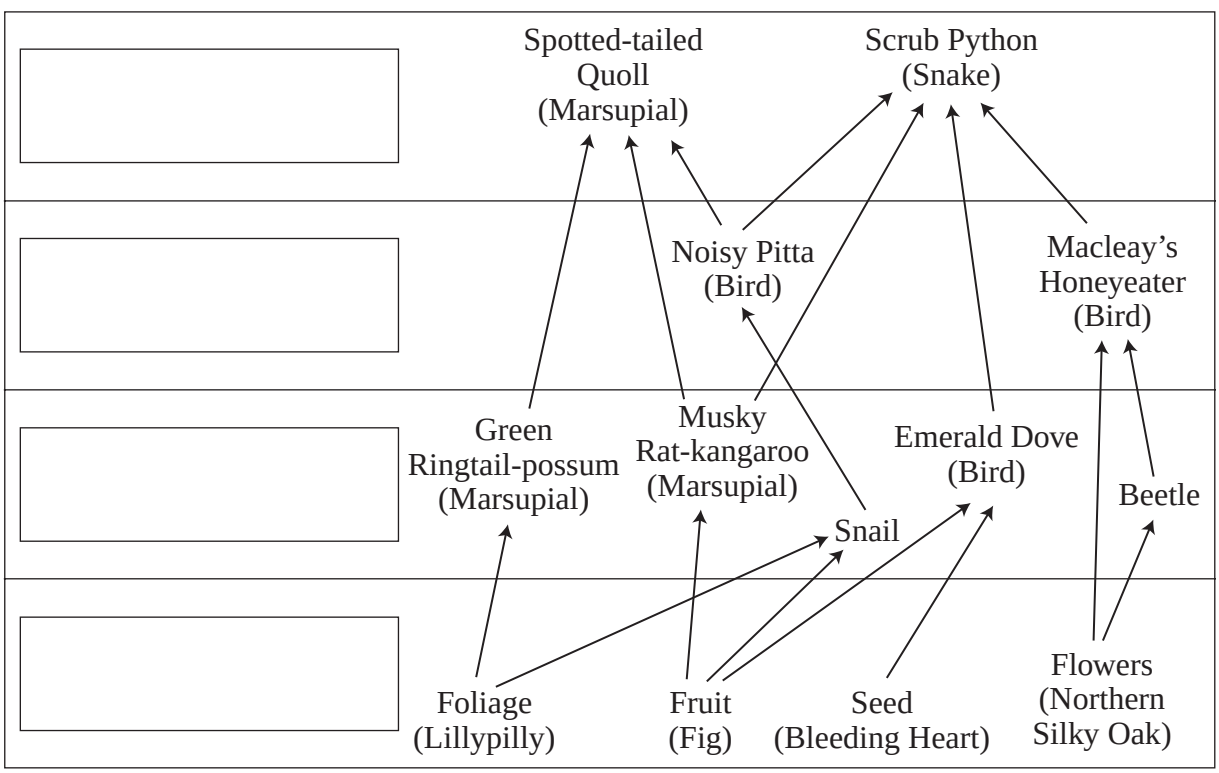
3 (a) **Figure 3** shows a food web operating within an Australian tropical rainforest environment.

Figure 3



3 (a) (i) In the spaces provided in **Figure 3**, label the four trophic levels.

(2 marks)

3 (a) (ii) Explain why there is a reduction in mass between each successive trophic level.

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(3 marks)

3 (a) (iii) Describe how the tropical rainforest is adapted to its environment.

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(5 marks)

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Question 3 continues on the next page

3 (b) With reference to a small-scale ecosystem, explain the interaction between its biotic and abiotic components.

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(10 marks)

(Extra space) .....

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END OF QUESTIONS

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED

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Question 2 Figure 2: Michael Sheridan, *The Sunday Times*, London
Question 3 Figure 3: Wet Tropics Management Authority

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Colour Insert

Figure 1 is not reproduced here due to third-party copyright constraints.