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Centre Number						Candidate Number					
Candidate Signature											

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General Certificate of Education
 June 2006
 Advanced Subsidiary Examination



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

GGA1

Friday 26 May 2006 1.30pm to 2.30pm

You will need no other materials.
 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.
- 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 your answers.

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

Answer **all** questions.

- 1 (a) **Figure 1** describes the flash flood of the River Valency which took place in Boscastle, Cornwall on 16 August 2004.

Figure 1

"A phenomenon that is difficult to forecast, and impossible to predict"
- not reproduced here due to third-party copyright constraints.

- (i) Describe the shape of the flood hydrograph of the River Valency likely to result from this rainfall event.

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(2 marks)

- (ii) Suggest reasons for the shape of the hydrograph you have described in (a)(i).

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(3 marks)

(b) How may human activities increase the risk of flooding?

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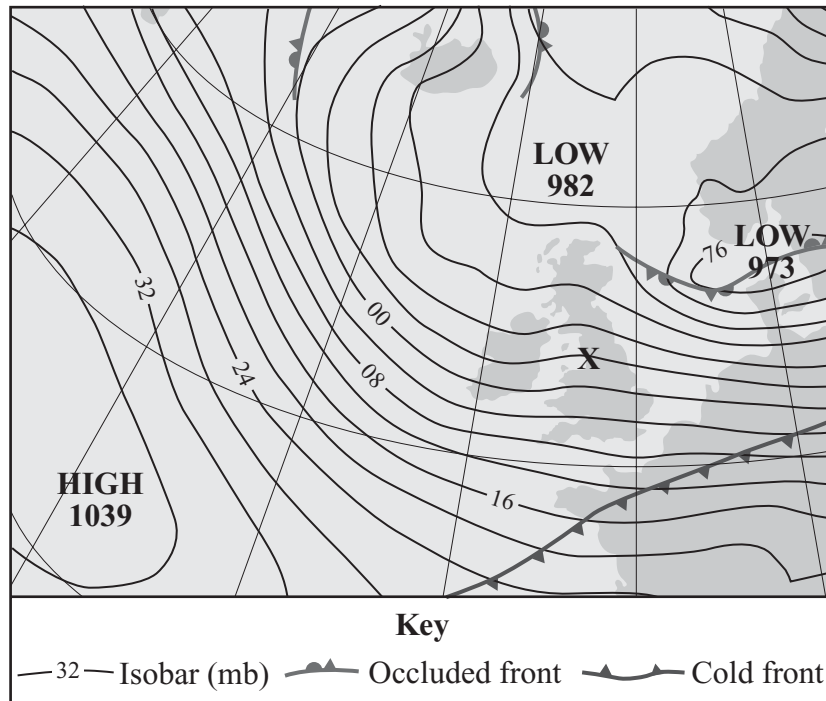
(5 marks)

Question 1 continues on the next page

Turn over ►

- 2 (a) **Figure 2** is a synoptic chart showing weather conditions on 21 March 2004 when a severe gale was experienced in southern Britain.

Figure 2



- (i) Using **Figure 2**, state the wind direction at **X** and give **one** piece of evidence to support your answer.

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(2 marks)

Question 2 continues on the next page

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(ii) Suggest likely impacts of such a gale in southern Britain.

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(3 marks)

(b) What conditions favour the formation of tropical revolving storms?

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(5 marks)

(c) Using examples, explain why the consequences of tropical revolving storms vary between More Economically and Less Economically Developed Countries.

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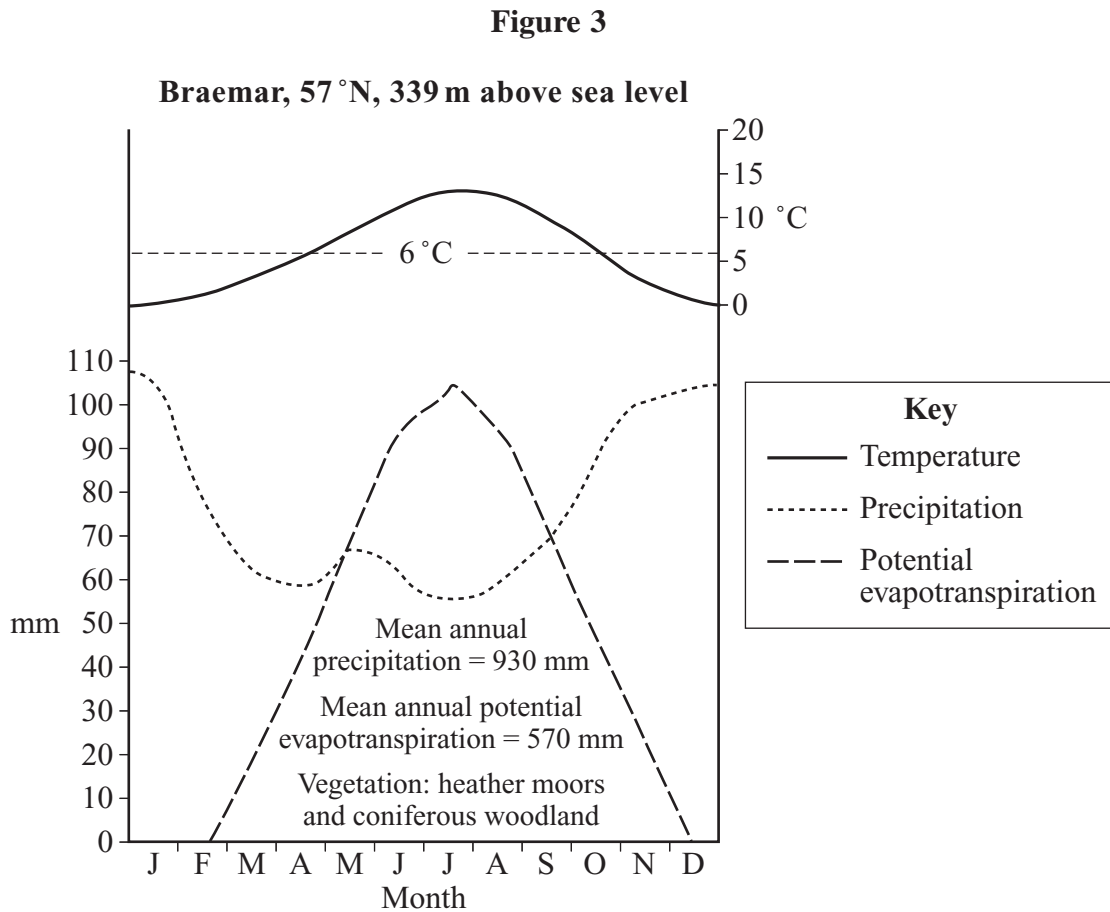
(10 marks)

20

Turn over for the next question

Turn over ►

3 (a) **Figure 3** shows climatic data for Braemar, in the Scottish Highlands.



(i) During which months will there be a water surplus in the soil at Braemar?

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(2 marks)

(ii) Suggest the soil type likely to be found at Braemar and give reasons for this.

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(3 marks)

(b) Draw a labelled soil profile to show the characteristics of a *brown earth soil*.

(5 marks)

Question 3 continues on the next page

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Question 1 Figure 1: adapted from TIM RADFORD, "A phenomenon that is difficult to forecast and impossible to predict.", *The Guardian*, 18/8/2004. Copyright Guardian Newspapers Limited 2004.

Question 2 Figure 2: © Crown copyright 2004. Published by the Met Office. www.metoffice.com

Question 3 Figure 3: Copyright © Oxford University Press, from *Data Resource Exercises in Physical & Human Geography* by K BRIGGS, H TOLLEY & D RILEY (OUP 1979) reprinted by permission of Oxford University Press.

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