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| Surname | | | | | | Other Names | | | | | |
| Centre Number | | | | | | Candidate Number | | | | | |
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| For Examiner's Use |
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General Certificate of Education
January 2008
Advanced Subsidiary Examination



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

GGA1

Monday 14 January 2008 9.00 am to 10.00 am

For this paper you must have:

- the colour insert (enclosed).
- 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 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) State the meaning of the following terms associated with a flood hydrograph.

Lag time

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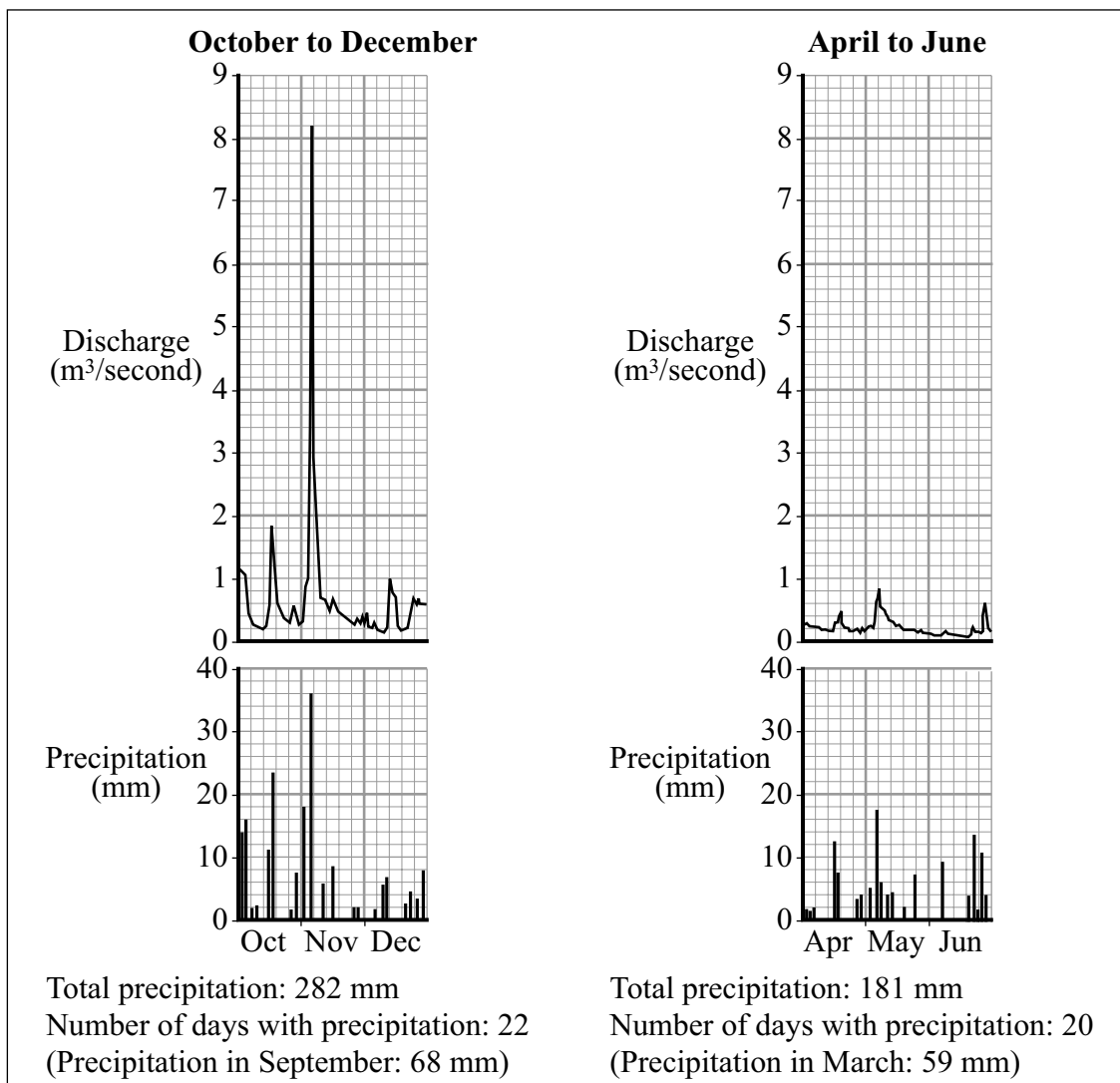
Base flow

.....

(2 marks)

- (b) **Figure 1** shows discharge and precipitation for Upper Hodge Beck, an upland stream in the North York Moors, from October to December and April to June in one year.

Figure 1



- (i) Contrast the pattern of discharge shown in **Figure 1** for the period October to December with that for the period April to June.

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(3 marks)

- (ii) Suggest reasons for the differences in the pattern of discharge between the two periods of time.

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(5 marks)

Question 1 continues on the next page

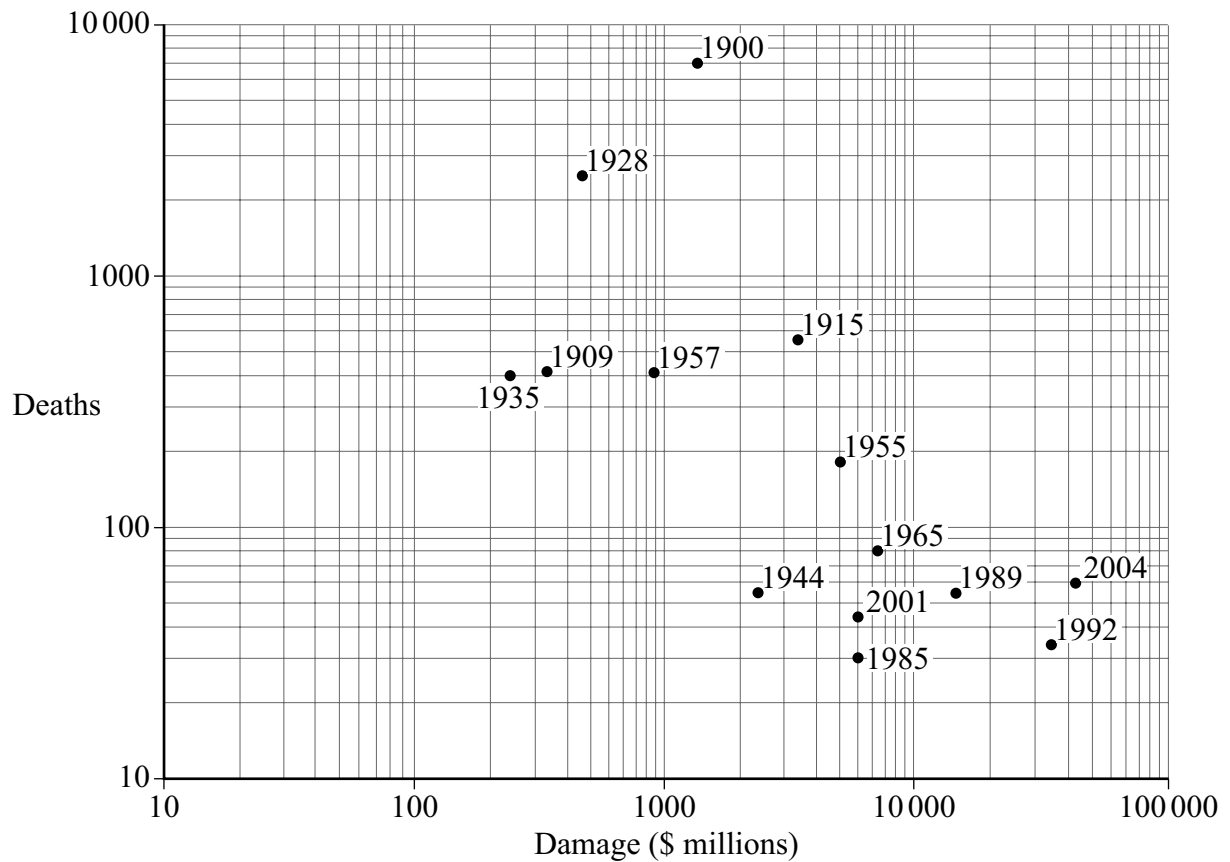
This image shows a full page of white paper with horizontal dotted lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

20

Turn over for the next question

- 2 (a) **Figure 2** shows the number of deaths and the cost of damage caused by tropical revolving storms (hurricanes) in the USA for selected years, 1900–2004.

Figure 2



- (i) What does **Figure 2** show about the relationship between damage and deaths caused by hurricanes?

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(2 marks)

(ii) Suggest reasons for the relationship described in (a)(i).

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(3 marks)

(b) Outline meteorological similarities and differences between hurricanes and tornadoes.

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(5 marks)

Question 2 continues on the next page

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Turn over for the next question

- 3 (a) State the meaning of the following terms:

Pioneer species

.....

Climatic climax community

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(2 marks)

- (b) **Figures 3a** and **3b** (on the insert) show sand dunes at Camber Sands in East Sussex. **Figure 3b** is located approximately 50 m inland from **Figure 3a**.

- (i) Contrast the vegetation shown in **Figure 3a** with that shown in **Figure 3b**.

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(3 marks)

- (ii) Suggest reasons for the contrasts described in (b)(i).

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(5 marks)

[illegible]

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www.theallpapers.com

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Question 1 Figure 1: © Oxford University Press from *Data Response Exercises in Physical and Human Geography*, by K Briggs, D Riley & H Tolley (OUP, 1979), by permission of OUP
Question 2 Figure 2: www.nhc.noaa.gov
Question 2 Figures 3a & 3b: A J Barker

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Colour Insert

Figure 3a



Figure 3b

