

Surname		Other Names	
Centre Number		Candidate Number	
Candidate Signature			

For Examiner's Use

General Certificate of Education
June 2007
Advanced Level Examination



**GEOGRAPHY (SPECIFICATION A)
Unit 7 Fieldwork Investigation**

GGA7

Friday 15 June 2007 9.00 am to 11.00 am

For this paper you must have:

- pre-release material (previously despatched)
- a calculator.

Time allowed: 2 hours

Instructions

- Use blue or black ink or ball-point pen.
- 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.
- Figures and page numbers pre-fixed **P** are to be found in the pre-release book.

Information

- The maximum mark for this paper is 100.
- 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.

Advice

Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work. You are advised to allocate your time carefully.

For Examiner's Use			
Question	Mark	Question	Mark
1		5	
2			
3			
4			
Total (Column 1)		→	
Total (Column 2)		→	
TOTAL			
Examiner's Initials			

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

1 Aims

- (a) **With reference to your own experience of planning a fieldwork enquiry**, outline how **Figures P1a–c** might have provided the basis in formulating the objectives for this enquiry.

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(4 marks)

- (b) With specific reference to **Figure P4**, suggest why this location is a suitable one for this enquiry.

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(2 marks)

6

2 Methods

- (a) **Figure P4** is a 1:25 000 map extract of the study area, whilst **Figure P5** contains a 1:50 000 extract of the same area. Outline and comment on the relative merits of these maps as resources for this enquiry.

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(6 marks)

- (b) The collection of the striation data is described on **page P12** and the results are given in **Figure P7**. Outline the problems likely to have been encountered in trying to collect reliable data using this method.

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(4 marks)

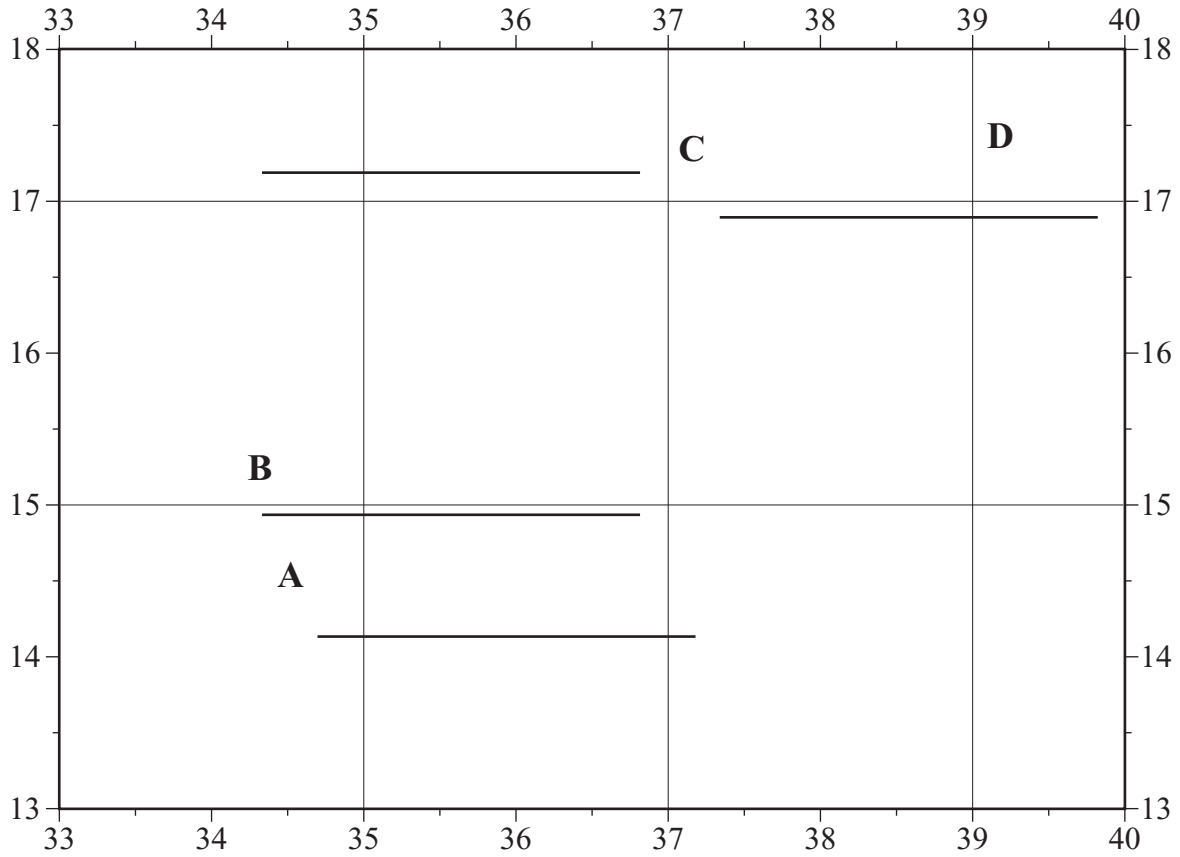
Question 2 continues on the next page

Turn over ►

3 Skills, Techniques and Interpretation

- (a) (i) Using **Figure P4**, label the features of glacial erosion located at **A–D** in **Figure 1**, a grid of the area covered by **Figure P4**.

Figure 1



(4 marks)

Question 3 continues on the next page

Turn over ►

- (ii) Using **Photograph 4** in **Figure P5**, label **Figure 2** to show the landforms and other landscape characteristics resulting from glacial erosion.

Figure 2



(5 marks)

- (b) (i) **Figures 3a** and **3b** partly present the information on the corries given in **Figure P6**. Complete **Figures 3a** and **3b** by adding the information for Brown Cove.

Figure 3a

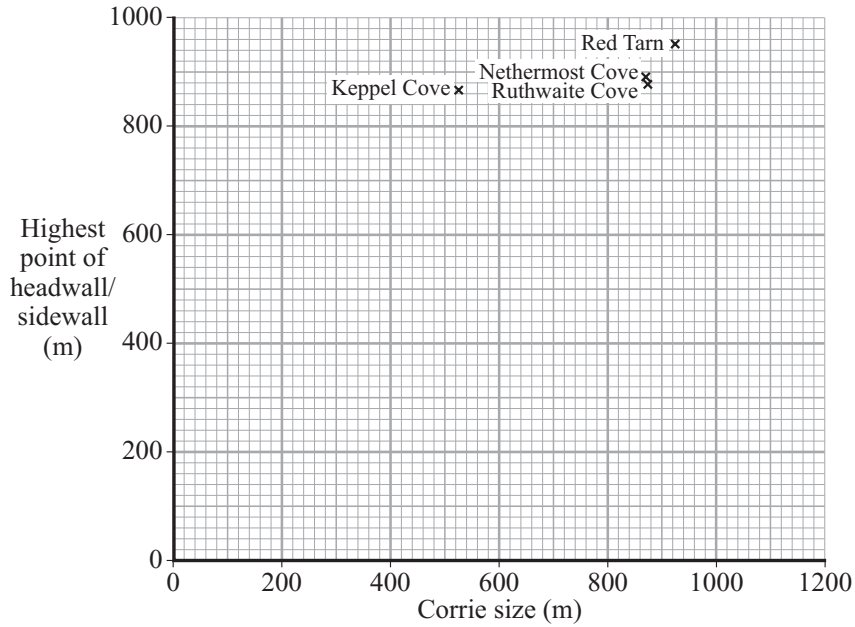
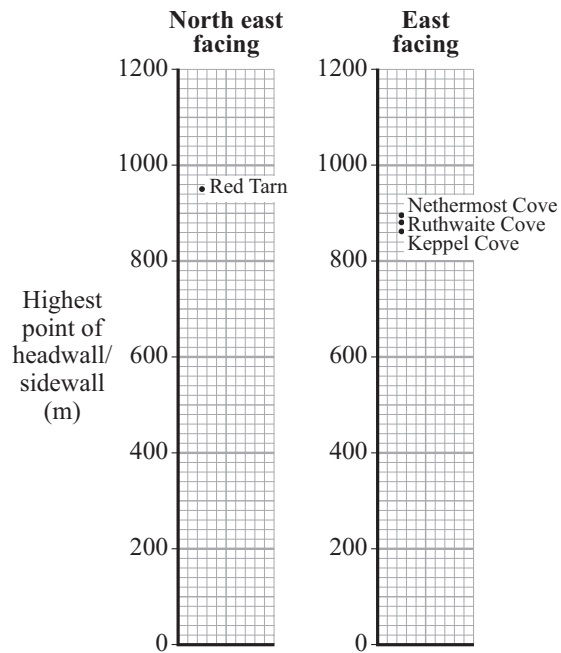


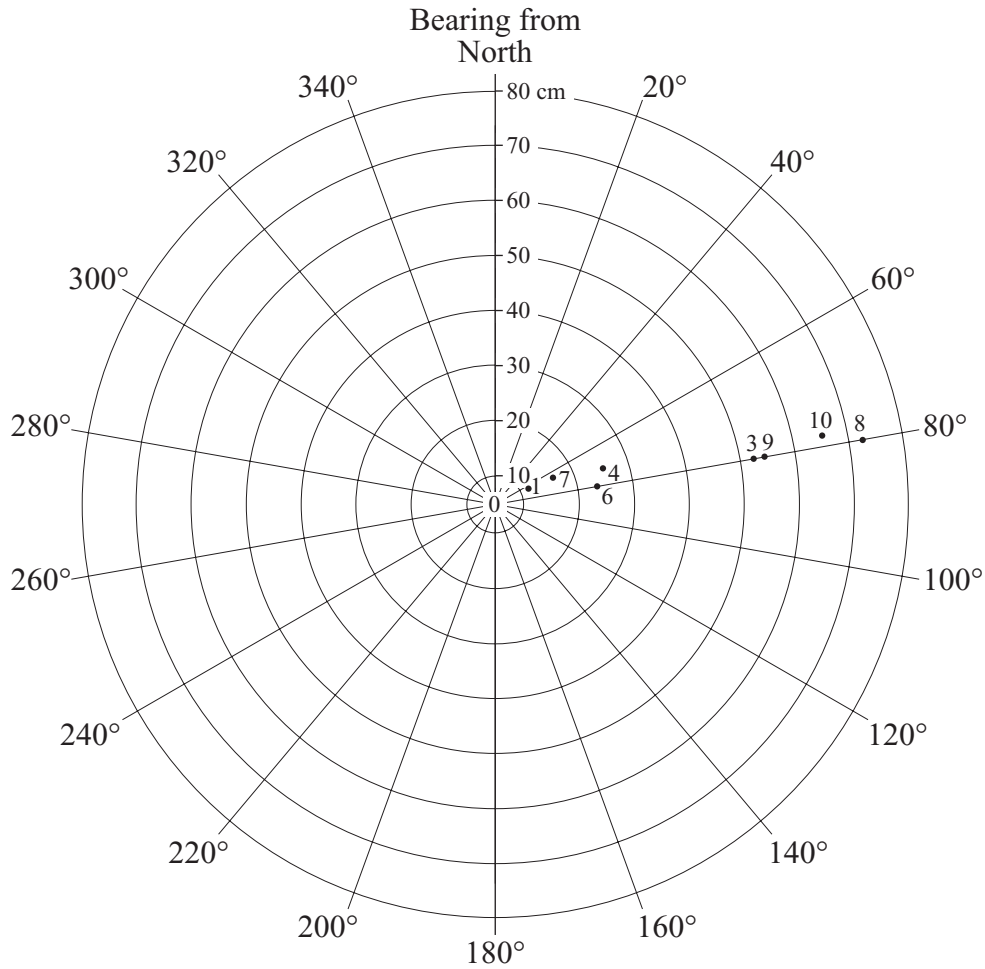
Figure 3b



(3 marks)

- (c) (i) **Figure P7** tabulates the results of the striation data. The length and orientation data are partly presented in **Figure 4**. Complete **Figure 4** by adding the information for striations 2 and 5.

Figure 4



(4 marks)

- (ii) Using **Figures 4** and **P7**, summarise and comment on the size and orientation characteristics.

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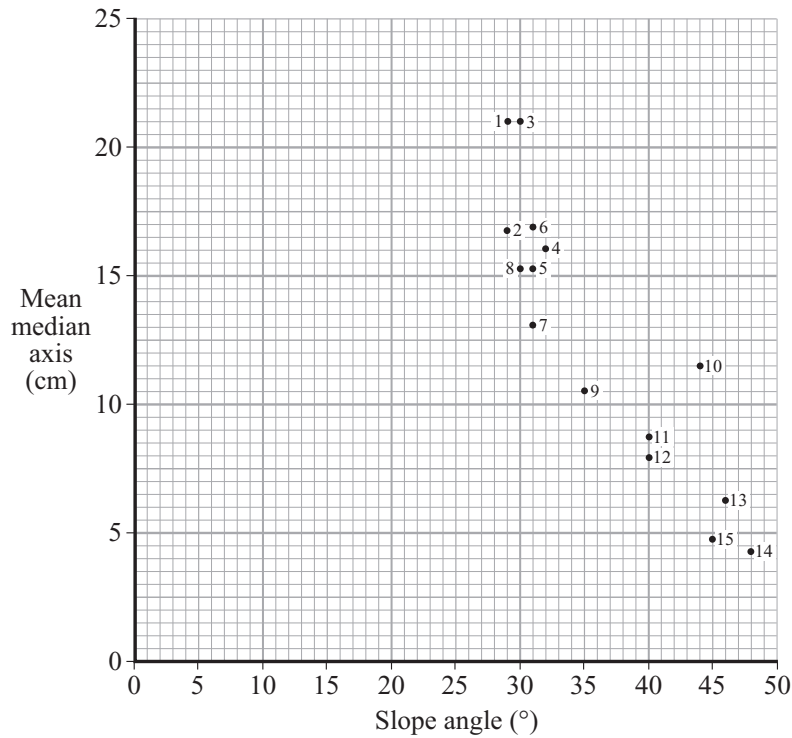
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(6 marks)

- (d) **Figure P8** is a photograph of the scree surveyed at Red Tarn. The results are shown in **Figure P9** and presented in **Figure 5**.

Figure 5



- (i) With reference to **Figure 5**, suggest an expected hypothesis that you would use to further investigate the data presented.

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(2 marks)

Question 3 continues on the next page

Turn over ►

(ii) Complete **Figure 6** to calculate the value of r_s .

Figure 6

Study Site	Angle of slope (x)	x Ranked	Mean median axis (cm) (y)	y Ranked	d	d ²
1	29	14.5	21.0	1.5	13	169
2	29	14.5	16.7	4	10.5	110.25
3	30	12.5	21.0	1.5	11	121
4	32	8	16.1	5	3	9
5	31	10	15.4	6	4	16
6	31	10	16.9	3		
7	31	10	13.1	8	2	4
8	30	12.5	15.3	7	5.5	30.25
9	35	7	10.5	10	-3	9
10	44	4	11.5	9	-5	25
11	40	5.5	8.7	11	-5.5	30.25
12	40	5.5	7.9	12	-6.5	42.25
13	46	2	6.1	13	-11	121
14	48	1	4.2	15	-14	196
15	45	3	4.7	14	-11	121

$$\sum d^2 = 1053$$

$$\begin{aligned}
 r_s &= 1 - \left(\frac{6\sum d^2}{n^3 - n} \right) \\
 &= 1 - \left(\frac{6 \times 1053}{15^3 - 15} \right) \\
 &= 1 - \left(\frac{\quad}{\quad} \right) \\
 &= 1 - \\
 &=
 \end{aligned}$$

(3 marks)

- (iii) Using the table of critical values below, interpret the value of r_s that you have calculated.

Sample size	Significance level	
	0.05	0.01
15	0.441	0.623

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(3 marks)

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Reliability

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Improvements and Extensions

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(10 marks)

10

5 Enquiry Related Issues

Information relating to the impact of people via tourism in the study area is given in **Figures P4, P5 and P11**.

The impact of tourism on the landscape has not been investigated in this enquiry. Following the structure below, outline how you would investigate this additional aspect.

- Use of a footpath survey to consider erosion
- The sampling of study sites in the area for this
- A second survey which would indicate the impact of tourism in Patterdale and Glenridding
- State one risk to your safety in conducting the extension and one way in which you would try to minimise the risk.

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(13 marks)

13

END OF QUESTIONS

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