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Centre Number						Candidate Number					
Candidate Signature											

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General Certificate of Education
 January 2006
 Advanced Level Examination



GEOGRAPHY (SPECIFICATION B)
Unit 6 The Practical Paper

GGB6

Wednesday 1 February 2006 1.30 pm to 3.00 pm

You will need no other materials.
 You may use a calculator.

Time allowed: 1 hour 30 minutes

Instructions

- Use blue or black ink or ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **both** questions.
- Do all rough work in this book. Cross through any work you do not want marked.
- If there is not enough space for your answer(s), use the extra page(s) at the end of the book. If you do this, make sure that you show the number of the question you are answering.

Information

- The maximum mark for this paper is 50.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers. Quality of Written Communication will be assessed in all answers.
- The degree of legibility of your handwriting and the level of accuracy of your spelling, punctuation and grammar will also be taken into account.

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

Answer **both** questions.

Total for this question: 20 marks

- 1** (a) State the main aim of a fieldwork enquiry that you have undertaken.
State a hypothesis or research question you set up to help you to achieve your aim.

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(3 marks)

Turn over for the next question

Turn over ►

Total for this question: 30 marks

- 2 A group of students was planning a study of a stream. The students' hypothesis stated that the velocity of streams increases with distance from the source. They collected data from 9 sites along the course of the stream. To do this they timed how long it took for a float to travel a distance of ten metres. They measured the velocity three times at each site and worked out an average for each site. The results are shown in the table in **Figure 1**.

Figure 1

Site	Distance from source (km)	Average time for float to travel 10 m (secs)
1	1.2	18.8
2	1.7	15.2
3	2.2	14.4
4	2.8	15.2
5	3.5	13.0
6	4.0	13.6
7	4.7	12.0
8	5.6	6.2
9	6.7	9.2

- (a) The students decided to present their figures on a scatter graph.

(i) Draw the scatter graph on **Figure 2** (page 7). *(5 marks)*

(ii) Add a trend line to your graph. *(1 mark)*

(iii) Explain how you decided where to put the trend line.

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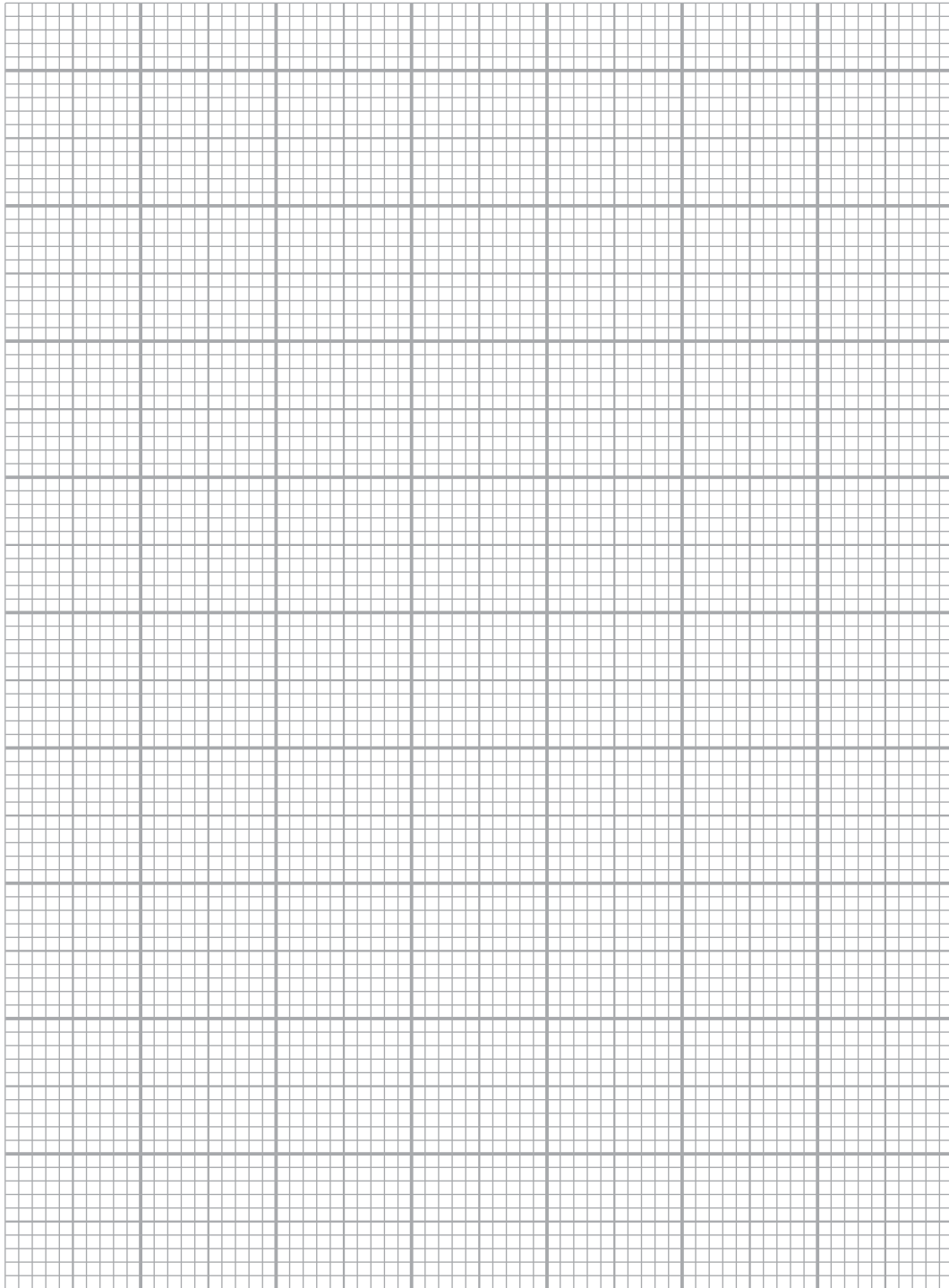
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(4 marks)

Figure 2



Question 2 continues on the next page

Turn over ►

- (b) (i) Name a statistical technique that the students could use to help them analyse their data and test the hypothesis.
Describe how they would carry out the technique.

Technique chosen:

Description:

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(7 marks)

- (ii) Discuss the strengths and weaknesses of the technique described in (b)(i) for testing the students' hypothesis.

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(5 marks)

(c) Write a report on the results of this investigation. You should refer to:

- the extent to which the information in **Figures 1 and 2** supports the students' hypothesis;
- other information that would help them prove or disprove the hypothesis.

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(8 marks)

END OF QUESTIONS

QUESTION
NUMBER

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QUESTION
NUMBER

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There are no questions printed on this page

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