

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use

General Certificate of Education
 June 2007
 Advanced Level Examination



GEOGRAPHY (SPECIFICATION B)
Unit 6 The Practical Paper

GGB6

Friday 15 June 2007 9.00 am to 10.30 am

<p>You will need no other materials. You may use a calculator.</p>
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For Examiner's Use			
Question	Mark	Question	Mark
1			
2			
Total (Column 1)		→	
Total (Column 2)		→	
TOTAL			
Examiner's Initials			

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 to be 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 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.

There are no questions printed on this page

Answer **both** questions.

Total for this question: 20 marks

- 1 (a) State the main aim of a fieldwork investigation that you have undertaken. State **either one** hypothesis **or one** research question that you set up and explain how this helped you to achieve your aim.

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(3 marks)

- (b) Describe **one** method that you used to collect your data. Explain how you tried to ensure that the data you collected were accurate.

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Question 1 continues on the next page

Turn over ►

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(7 marks)

(c) Making specific references to the results that you obtained, explain how your investigation helped you to gain an understanding of the topic or the environment that you were studying. State your conclusions and comment on the strength and reliability of those conclusions.

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(10 marks)

20

Turn over for the next question

Turn over ►

Total for this question: 30 marks

- 2 A student was doing a coursework enquiry into the hazard of malaria in Africa. He collected the data in **Figure 1**.

Figure 1

Column 1	2	3	4	5	6	7
Country	% of children with malaria who received drug treatment	Rank 1 (R1)	GNP per capita (US \$)	Rank 2 (R2)	Difference (R1 – R2) (d)	d ²
Central African Republic	69	1	1100	5.5	–4.5	
Cameroon	68	2	1900	3	–1	
Angola	63	3	2100	2	1	
Benin	61	4	1200	4	0	
Tanzania	54	5	700			
Zambia	51	6	900			
Equatorial Guinea	50	7	2700	1	6	
Congo	46	8	800			
Nigeria	36	9	1000			
Burundi	33	10	600			
Malawi	29	11	600			
Kenya	28	12	1100	5.5	6.5	
Somalia	18	13	600			
Σd^2						

- (a) Carry out a Spearman Rank Correlation Test on the statistics in **Figure 1**, to test the hypothesis that the % of children with malaria who received drug treatment in African countries is directly related to GNP.

- (i) Complete the table in **Figure 1**.

(7 marks)

- (ii) Substitute in the formula below (where n = the number of pairs of variables) and complete the calculation.

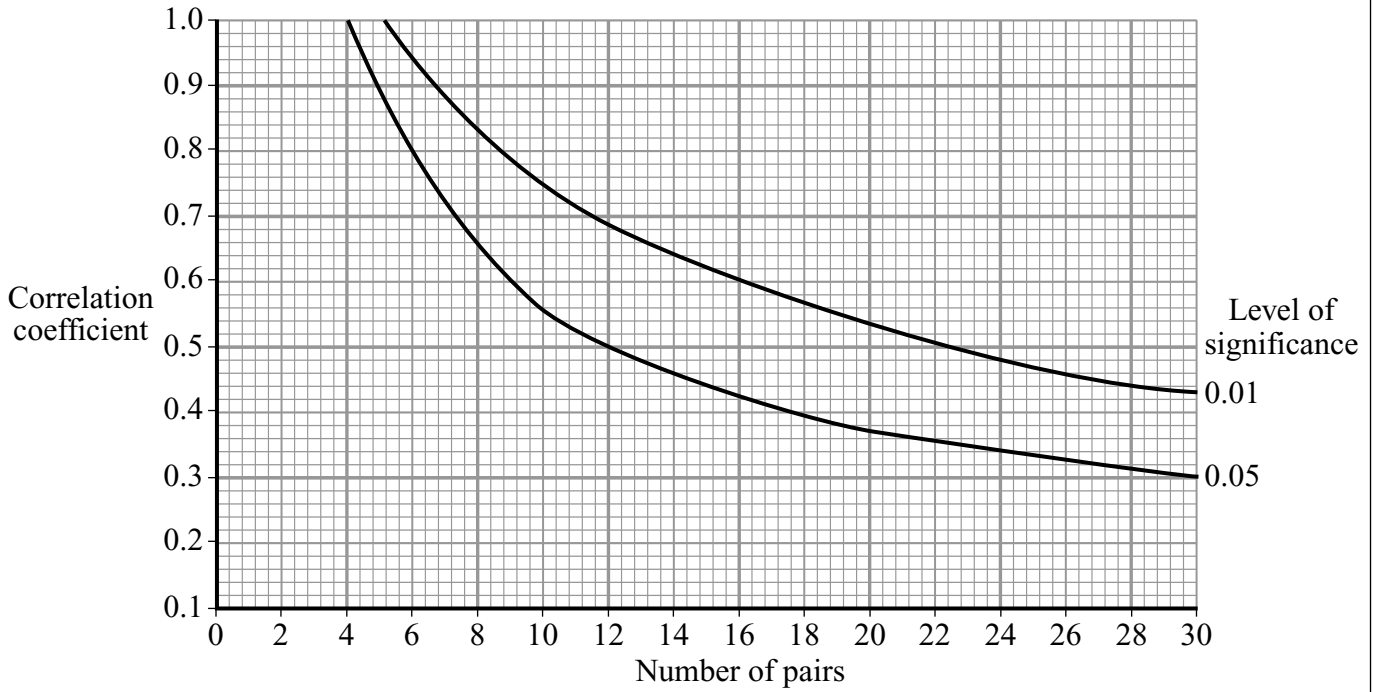
$$R_s = 1 - \frac{6 \Sigma d^2}{n^3 - n}$$

$R_s =$

(3 marks)

(iii) **Figure 2** shows the critical values of the Spearman Rank Correlation Coefficient. Check your result against the graph and explain the statistical significance of your result. What conclusions can you draw from this exercise?

Figure 2



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(8 marks)

Question 2 continues on the next page

Turn over ►

- (b) (i) When the student had collected the data in columns 2 and 4 of **Figure 1**, he thought about presenting these data in the form of a graph. Suggest what type of graph would be the best way to present these data. Justify your choice of graph.

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(6 marks)

QUESTION
NUMBER

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QUESTION
NUMBER

Write the question number in the left-hand margin.

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There are no questions printed on this page

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