

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

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General Certificate of Education  
 June 2006  
 Advanced Level Examination



**GEOGRAPHY (SPECIFICATION A)  
 Unit 7**

**GGA7**

Monday 19 June 2006 1.30 pm to 3.30 pm

**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. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions in the spaces provided.
- Do all rough work in this book. Cross through any work you do not want marked.
- Figure and page numbers prefixed **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 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 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.

**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 should allocate your time carefully.

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

Answer **all** the questions.

**1 AIM**

- (a) With reference to your own experience of planning a fieldwork enquiry, and the objectives on page **P2**, outline how **Figure P2** might have provided the idea for this study.

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*(4 marks)*

- (b) Suggest why the study was limited to the Old Faithful area, Geyser Country, within Yellowstone National Park.

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*(2 marks)*

6
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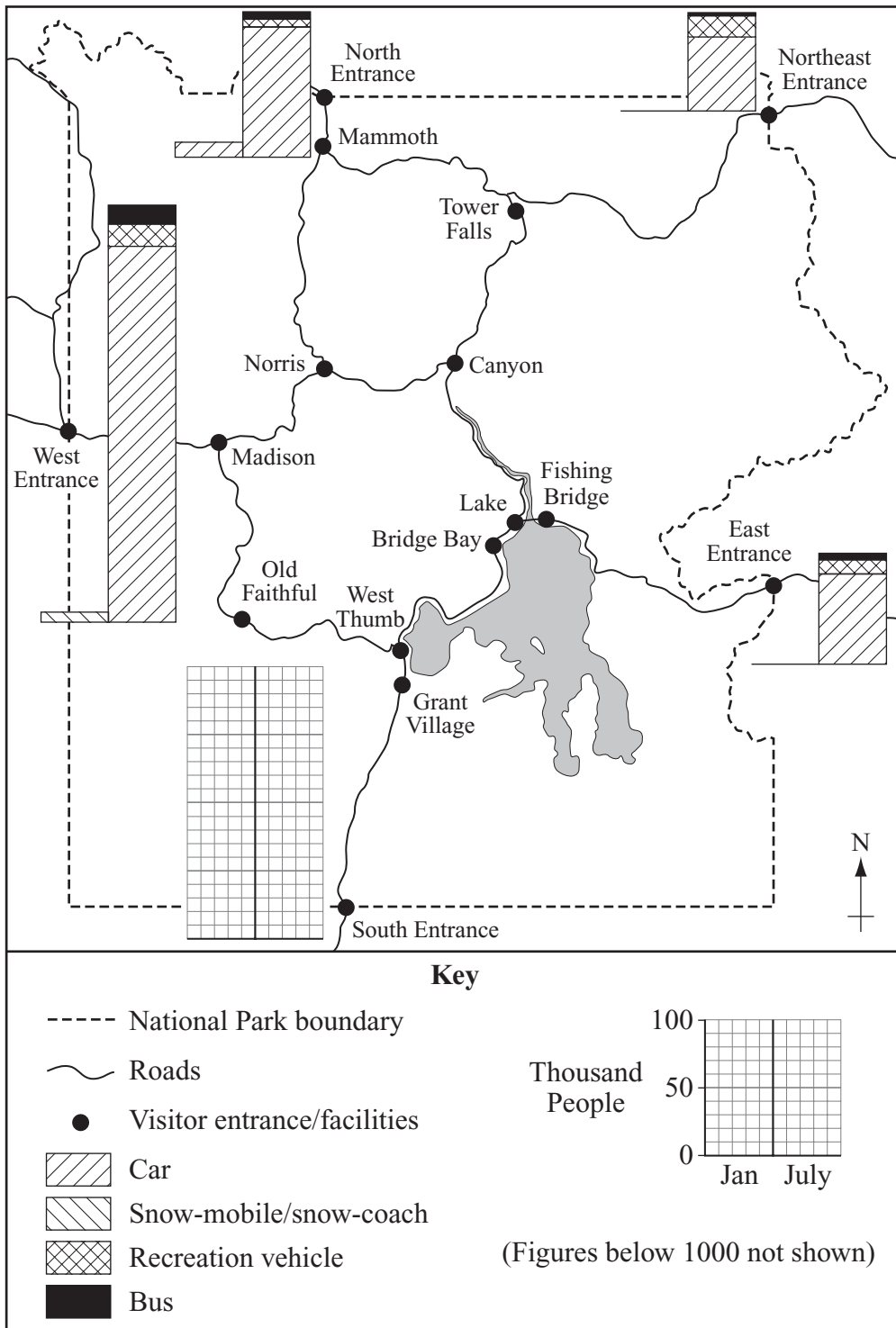




**3 Skills, Techniques and Interpretation**

- (a) (i) **Figures P3a–c** show the characteristics and patterns of use of Yellowstone National Park.  
The information shown in **Figure P3b** is partly presented in **Figure 1**.  
Complete **Figure 1** by adding the information for the South Entrance for January and July 2004.

**Figure 1**



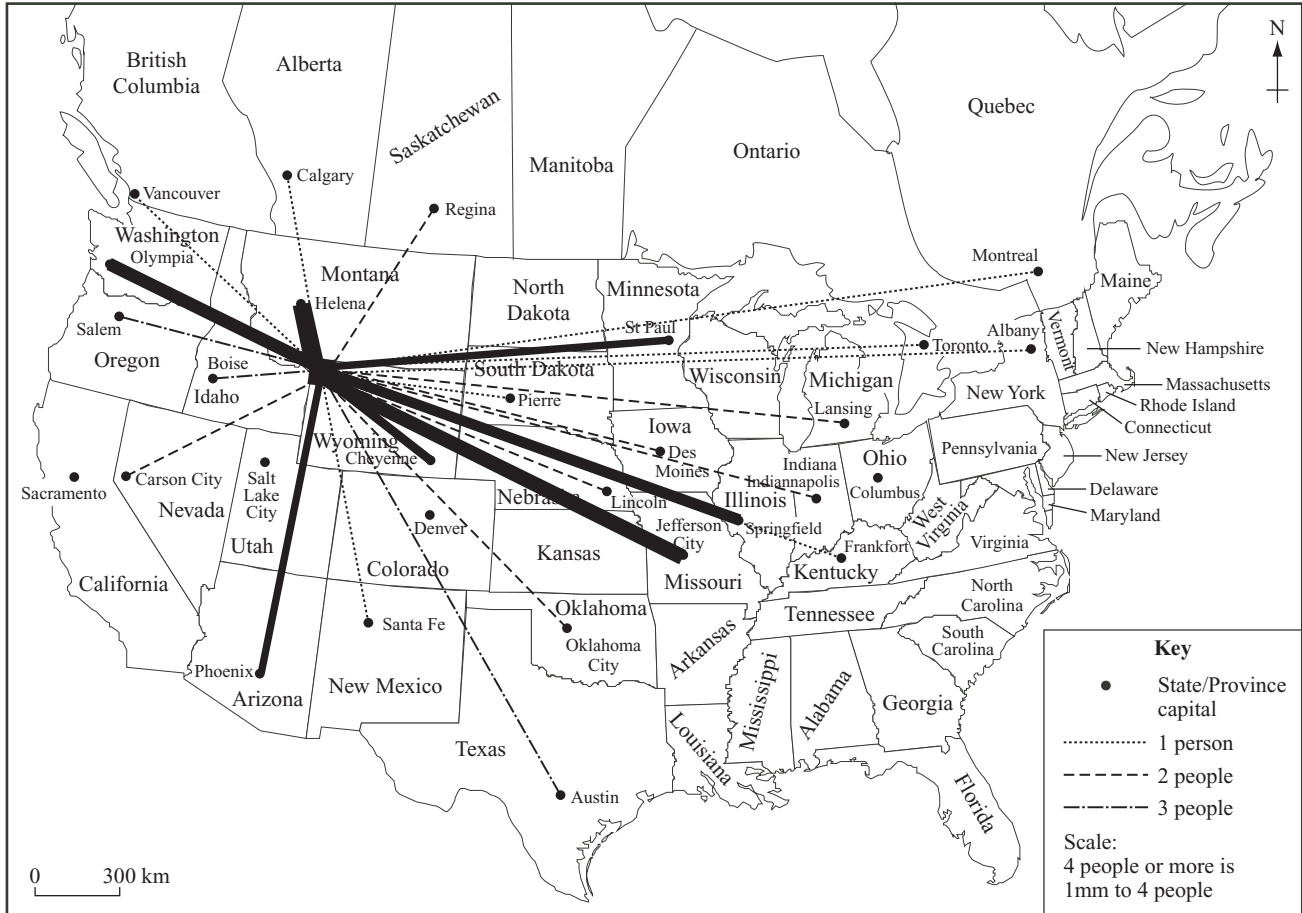
(4 marks)

Turn over ►



- (b) (i) The results of the origin of visitor survey are shown in **Figure P4**. This information is partly presented in **Figure 2**. Complete **Figure 2** by adding the information for California, Ohio and Utah.

**Figure 2**



(3 marks)

- (ii) Describe and suggest reasons for the pattern shown in **Figure 2**.

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**Question 3 continues on the next page**

**Turn over** ►

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*(6 marks)*



- (c) (i) **Figure 3** is an enlarged copy of a photograph of **site 2** from **Figure P5**. Label **Figure 3** to show the attractiveness of the site for tourists and the effects of the tourists.

**Figure 3**



*(6 marks)*

**Question 3 continues on the next page**

**Turn over ►**



- (ii) Complete **Figure 4** to calculate the value of  $r_s$ . The effects of tourism were determined by adding together the effects of tourism and visitor intensity scores in **Figure P7**.

**Figure 4**

Study site	Distance from Old Faithful Geysers (x) (m)	x Ranked	Effects of tourism (y)	y Ranked	d	d <sup>2</sup>
1	0	12	30	1	11	121
2	237.5	11	9	7	4	16
3	387.5	10	6	10	0	0
4	687.5	9	17	2	7	49
5	812.5	8	4	12	-4	16
6	962.5	7	10	5	2	4
7	1150.0	6	10	5	1	1
8	1300.0	5	6	10	-5	25
9	1387.5	4	7			
10	1537.5	3	10	5	-2	4
11	1800.0	2	6	10	-8	64
12	1887.5	1	13	3	-2	4

$$\sum d^2 = 320$$

$$\begin{aligned}
 r_s &= 1 - \left( \frac{6 \times 320}{12^3 - 12} \right) \\
 &= 1 - \left( \frac{\quad}{\quad} \right) \\
 &= 1 - \quad \\
 &= \quad
 \end{aligned}$$

(3 marks)

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

Sample size	Significance level	
	0.05	0.01
12	0.497	0.703

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(3 marks)

Turn over ►





Reliability .....

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Improvements and extensions .....

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*(10 marks)*

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**5 Enquiry Related Issues**

- (a) The information on page **P15** and in **Figure P10** relates to the impact of fire on vegetation in Yellowstone National Park. Suggest a title for an enquiry relating to this issue and one objective or hypothesis related to your title.

Title .....

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Objective/hypothesis .....

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*(4 marks)*

- (b) For the title indicated in part (a), state the number of study sites you would have and how you would sample them. Justify both your sample size and method of sampling.

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*(5 marks)*

**Turn over ►**

- (c) With reference to your objective/hypothesis in part (a), state one item of primary data you would collect.  
Briefly describe how you would collect it at your chosen study sites.

Item of primary data .....

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*(4 marks)*

**13**

**END OF QUESTIONS**

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Figure P5

