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General Certificate of Education June 2006 Advanced Level Examination

ASSESSMENT ...a QUALIFICATIONS

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		N /
	4	

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

6

2 Methods

(a)

With specific reference to Objective 1 , outline the usefulness of obtaining the data items shown in Figures P3a–c and comment on the reliability of the data collected.
(6 marks)

Question 2 continues on the next page

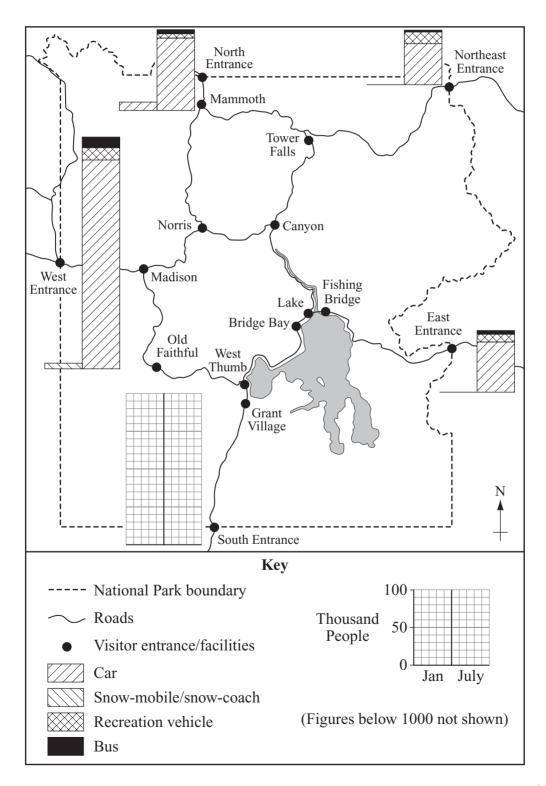
Describe the advantages and disadvantages of this method.
(6 mar
A questionnaire was not conducted in this enquiry but would have been relevant in
investigating further the patterns of use of Yellowstone.
Suggest the wording of a closed question to determine both the characteristics of visitor groups and length of stay in Yellowstone.
Characteristics of visitor groups
Length of stay

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

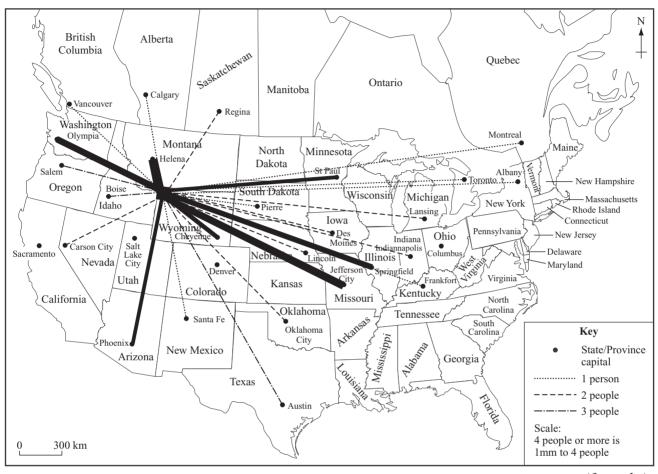


(4 marks)

(ii)	Using Figures P3a–c and Figure 1 , summarise and comment on the patterns of annual use, points and means of entry and type of accommodation in Yellowstone National Park.				
	(10 marks)				

(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 .

Question 3 continues on the next page

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•••••		
		(6 marks)
		(O 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

(ii)	To what extent does the photographic evidence on Figure P5 suggest that the attractiveness and effects of tourism reduce with increasing distance from Old Faithful Geyser?				
(i)	The relationship between the effects of tourism and distance from Old Faithful Geyser can be further investigated by applying Spearman's rank correlation.				
	State your expected/alternative hypothesis.				
	(2 marks)				

(d)

(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 Geyser (x) (m)	x Ranked	Effects of tourism (y)	y Ranked	d	d^2
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

$$r_{s} = 1 - \left(\frac{6 \times 320}{12^{3} - 12}\right)$$

$$= 1 - \left(\frac{6 \times 320}{12^{3} - 12}\right)$$

$$= 1 - \left(\frac{6 \times 320}{12^{3} - 12}\right)$$

$$= 1 - \left(\frac{3 \text{ marks}}{12^{3} - 12}\right)$$

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

	Significar	nce level
Sample size	0.05	0.01
12	0.497	0.703

 	 	••••••
 	 	•••••
		(3 marks)

(e)	Figures P8 and P9 show some of the management strategies in place in the Old Faithful area. Using evidence from Figures P5 , P7 , P8 and P9 , assess the effectiveness of these management strategies.
	(10 marks)

Write a summary of your findings for this enquiry with specific reference to the aim and

4 Conclusion

objectives given on page P2 . Using your own experience of conducting an enquiry, you should, in addition, consider the reliability of these findings and suggest how this enquiry could be improved and extended.					
Summary					

Reliability	
Improvements and extensions	
improvements and extensions	
	(10 marks)

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
	Objective/hypothesis
(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.
	Justify both your sample size and method of sampling.

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	
	(4 marks)	

END OF QUESTIONS

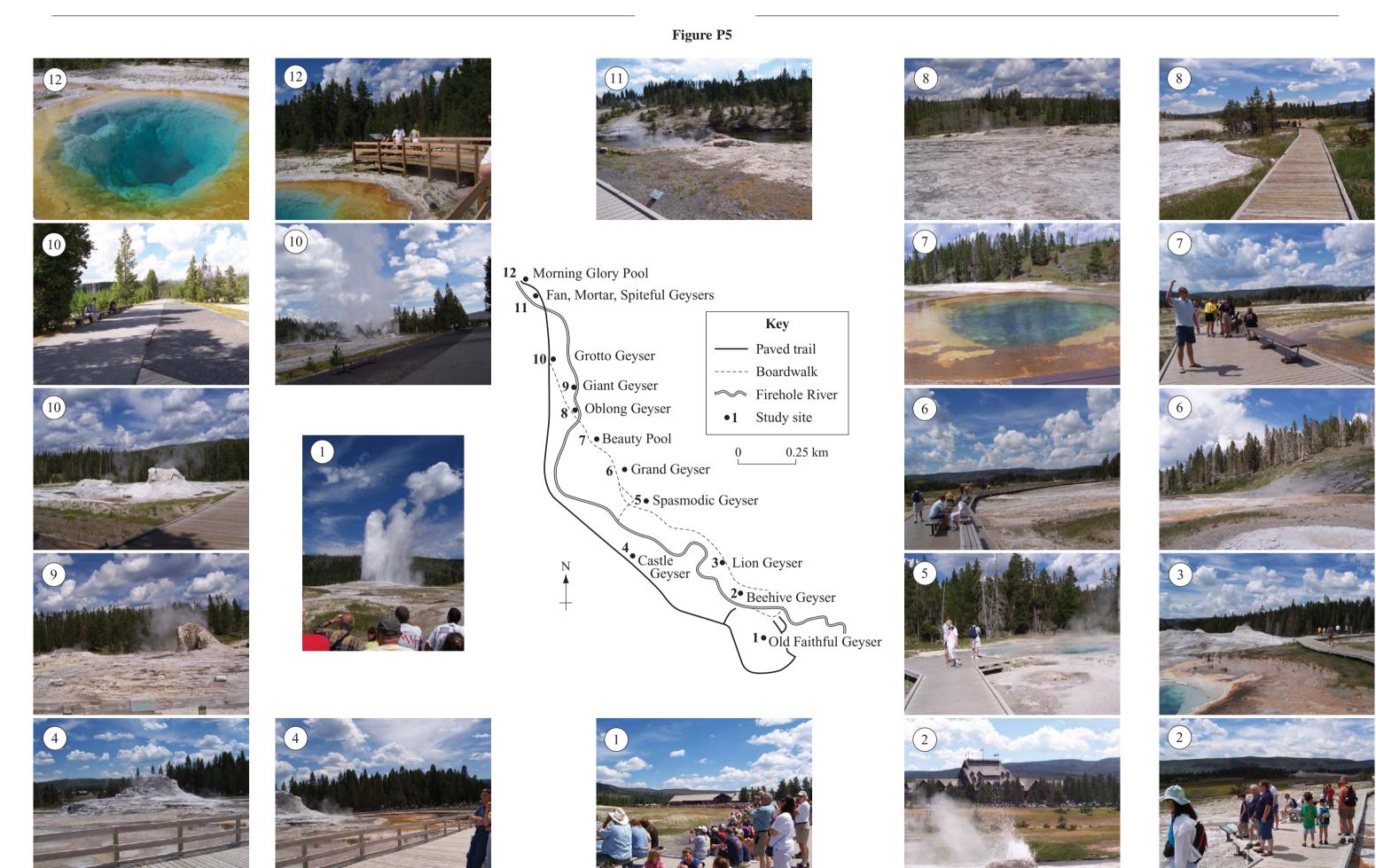
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