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General Certificate of Education  
 January 2005  
 Advanced Level Examination



**GEOGRAPHY (SPECIFICATION A)  
 Unit 7**

**GGA7**

Tuesday 1 February 2005 Afternoon Session

**In addition to this paper you will require:**  
 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 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.
- Mark allocations are shown in brackets.
- You will be assessed 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 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 are advised to allocate your time carefully.

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

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

**1 Aim**

- (a) **With reference to your own experience of planning a fieldwork enquiry**, outline how the background information on page **P2** and **Figures P1a** and **P1b** might have provided the stimulus for this study.

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*(4 marks)*

- (b) With reference to **Figure P2**, suggest **one** reason why Purton has a typical location for this study and **one** reason why it may seem an unusual location.

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*(2 marks)*



**2 Methods**

- (a) The results of the age of buildings survey are shown in **Figure P4**. This information could have been collected using secondary data. Outline how this could have been done using secondary data and suggest one advantage and one disadvantage of this method.

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*(4 marks)*

- (b) The method of collecting the data for the building/environment survey is described on page **P6** and the results are shown in **Figure P5**. Comment on the validity of the features included in the building/environment survey and outline the advantages and disadvantages of this method of data collection.

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*(6 marks)*

**QUESTION 2 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

- (c) The initial version of the questionnaire (before piloting) is shown in **Figure P6a** whilst the final questionnaire is shown in **Figure P6b**. Explain why the initial version had to be changed and outline what further changes you would make.

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(6 marks)



### 3 Skills, Techniques and Interpretation

- (a) (i) Using **Photograph 11** on **Figure P3**, label the copy of the photograph (**Figure 1**) to show the characteristics of the housing and the environment.



**Figure 1**

*(6 marks)*

**QUESTION 3 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

(ii) Assess the extent to which evidence of counter urbanisation is shown in **Figure P3**.

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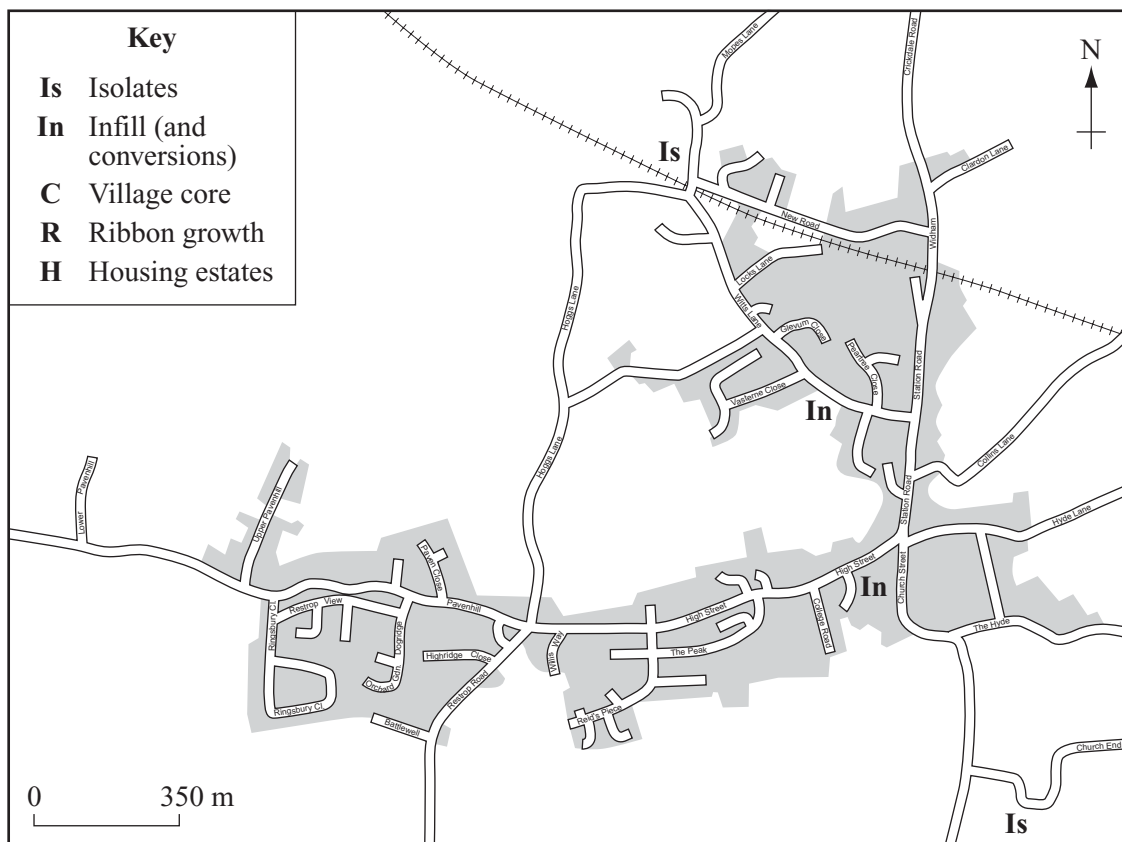
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*(8 marks)*

- (b) (i) **Figure P4** shows the results of the age of buildings survey. **Figure 2** is a street plan of Purton. Examples of areas of ‘isolates’ and of ‘infill and conversions’ – zones shown on **Figure P1a**, are already shown on **Figure 2**. Complete **Figure 2** by identifying **one** area of each of the remaining **three** zones shown in the key.



**Figure 2**

(3 marks)

**QUESTION 3 CONTINUES ON THE NEXT PAGE**

**Turn over** ►

(ii) To what extent does Purton fit the model of the suburbanised village shown in **Figure P1a**?

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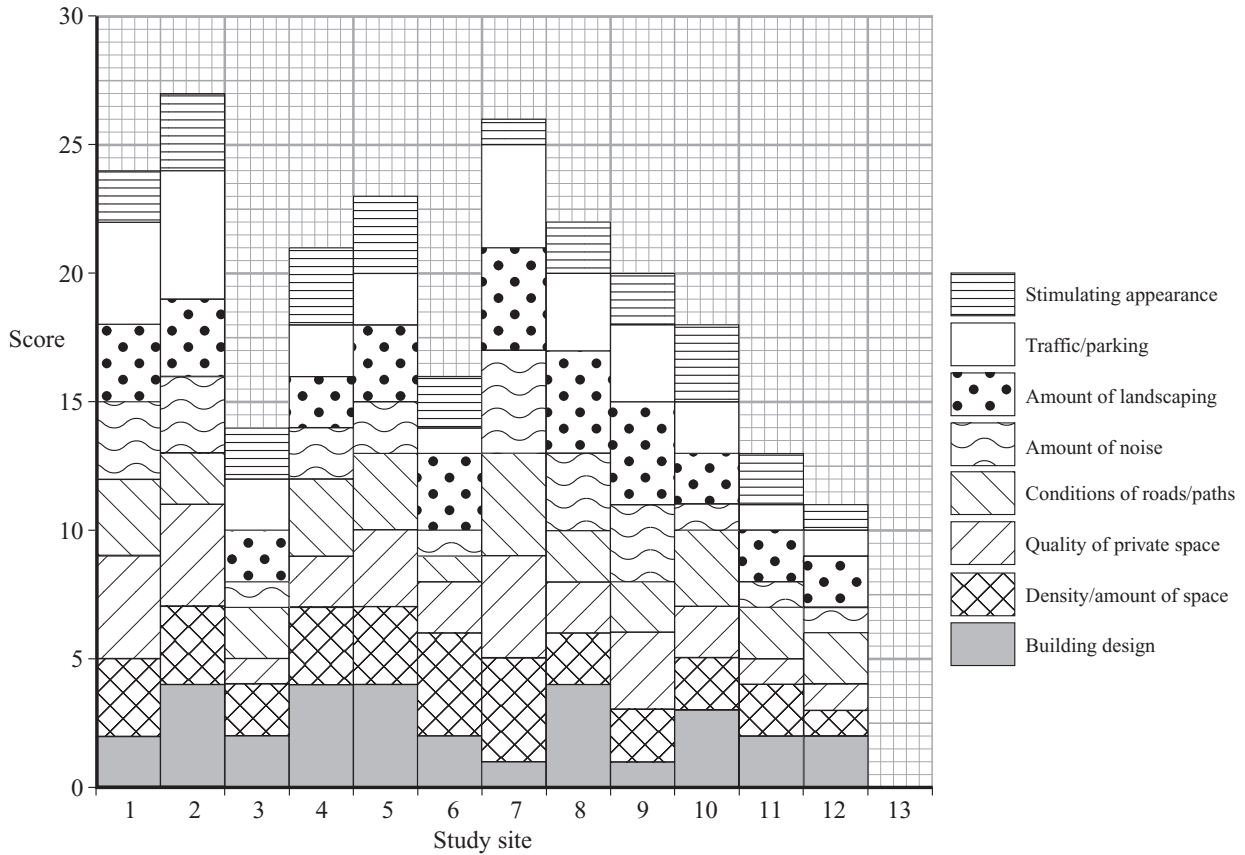
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*(8 marks)*



(c) (i) **Figure P5** shows the results of the building/environment survey. This information is partly displayed on **Figure 3**. Complete **Figure 3** by adding the information for study site 13.



**Figure 3**

(4 marks)

**QUESTION 3 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

- (ii) With reference to **Figure P4** and **Figures 2** and **3**, comment on the extent to which there is a relationship between the quality of the building/environment and the different zones of Purton.

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(8 marks)

- (iii) The changing quality of the building/environment can be further investigated by applying Spearman’s rank correlation to the data to see if the quality increases with distance from the core.  
Complete **Figure 4** (page 11) to calculate the value of  $r_s$ .

Study Site	Distance from core (metres) (x)	x Ranked	Building/environment total score (y)	y Ranked	d	d <sup>2</sup>
1	900	4	24	3	1	1
2	970	3	27	1	2	4
3	1530	1	14	11	-10	100
4	1230	2	21	7	-5	25
5	620	5	23	4.5	0.5	0.25
6	210	10	16	10	0	0
7	150	11	26	2		
8	40	12.5	22	6	6.5	42.25
9	40	12.5	20	8	4.5	20.25
10	490	6	18	9	-3	9
11	460	7	13	12	-5	25
12	400	8	11	13	-5	25
13	380	9	23	4.5	4.5	20.25

$\sum d^2 =$

$$r_s = 1 - \left( \frac{6 \sum d^2}{n^3 - n} \right)$$

$$= 1 - \left( \frac{\quad}{\quad} \right)$$

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**Figure 4**

(4 marks)

(iv) Referring to the significance table below, interpret the value of  $r_s$ .

Sample size	Significance level	
	0.05	0.01
13	0.475	0.673

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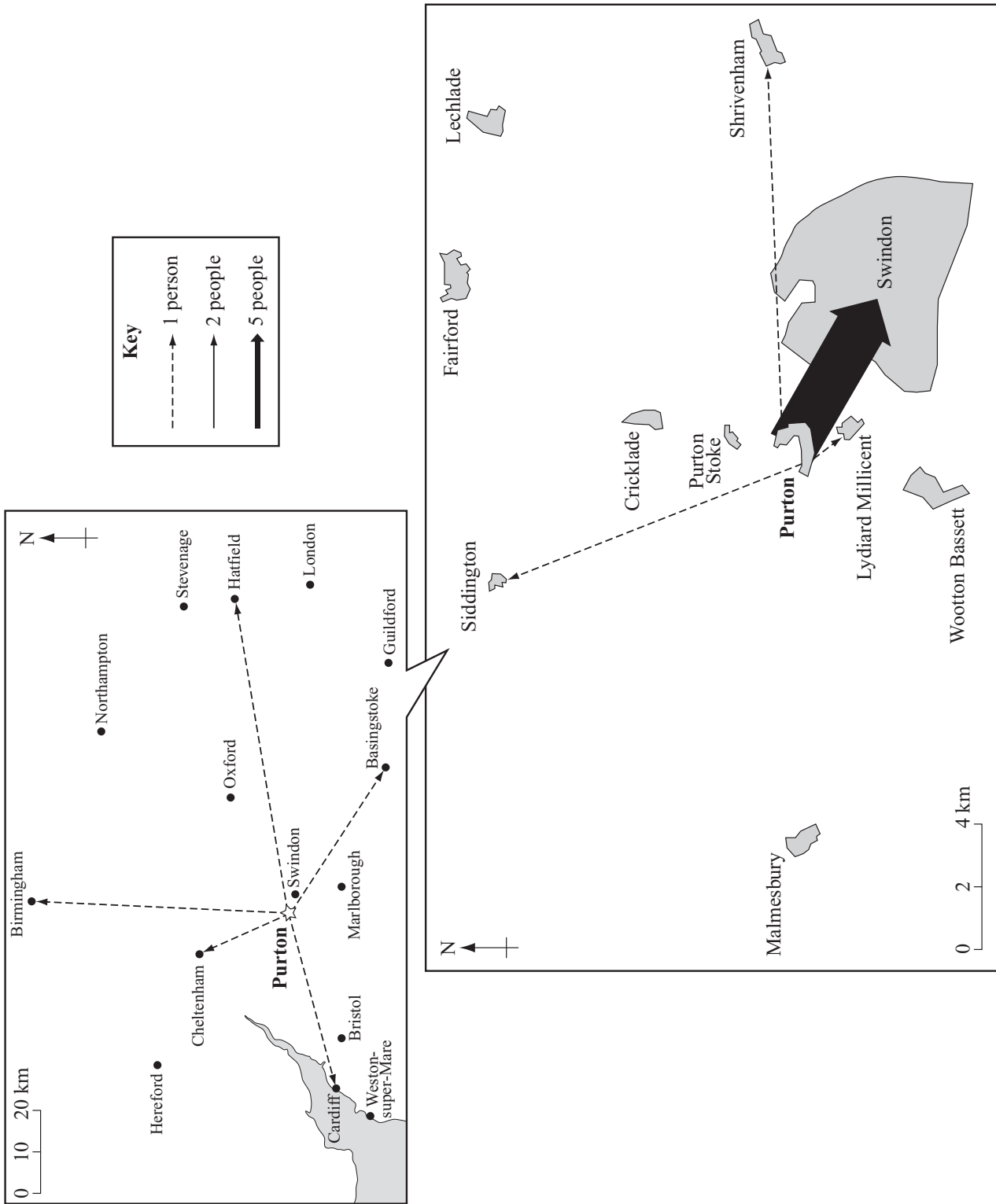
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(3 marks)

Turn over ►

- (d) (i) The results of the questionnaire are displayed in **Figure P6b**. The information for Question 8 is partly displayed in **Figure 5**. Complete **Figure 5** by showing the information for Malmesbury, Fairford and Bristol.



(3 marks)

- (ii) Using **Figures P6b, P7** and **Figure 5**, describe the characteristics of the residents of Purton and comment on the extent to which they reflect the expected characteristics of the inhabitants of a village affected by counter urbanisation as shown in **Figure P1b**.

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(8 marks)

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**TURN OVER FOR THE NEXT QUESTION**

Turn over ►

#### 4 Conclusion

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

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Reliability .....

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Improvements and Extensions .....

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*(10 marks)*

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**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

**5 Enquiry Related Issues**

The enquiry could be developed further by considering **either**  
**A** the issue of the adequacy of local services for all residents **or**  
**B** the issue of the development of new dwellings in Purton.

Choose either **A** or **B**.  
Clearly state which issue you have chosen.

Issue chosen .....

- (a) (i) Suggest a hypothesis, question or problem that could be investigated in relation to your chosen issue.

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*(2 marks)*

- (ii) An investigation into either issue would potentially benefit from interviewing residents. State the size of sample of residents you would seek to interview, the sampling method you would use and justify both the sample size and sampling method.

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*(6 marks)*



- (iii) Identify **one** further item of data you would collect.  
For this item of data, state whether it is primary or secondary data and outline the method of collecting it.

Data item ..... Primary/Secondary.....

Method .....

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(5 marks)

13

**END OF QUESTIONS**

**THERE ARE NO QUESTIONS PRINTED ON THIS PAGE**

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