

General Certificate of Education  
June 2004  
Advanced Subsidiary Examination



**GENERAL STUDIES (SPECIFICATION B)**  
**Unit 3 Space**

**GSB3**

Monday 24 May 2004      Afternoon Session

**In addition to this paper you will require:**

- an 8-page answer book;
- graph paper;
- a calculator;
- drawing instruments.

Time allowed: 1 hour 15 minutes

**Instructions**

- Use blue or black ink or ball-point pen.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is GSB3.
- Answer **all** questions.
- Do all rough work in your answer book. Cross through any work you do not want marked.

**Information**

- The maximum mark for this paper is 60.
- Mark allocations are shown in brackets.

**Advice**

- You will be assessed on your ability to:
  - select and use a form and style of writing appropriate to purpose and complex subject matter;
  - organise relevant information clearly and coherently, using specialist vocabulary when appropriate;
  - ensure text is legible, and spelling, grammar and punctuation are accurate, so that meaning is clear.

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Answer Questions 1 and 2.

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1

**Total for this question: 30 marks**

Look carefully at the tables opposite. **Table 1** shows percentage changes in noise complaints from 1984-5 to 2000-1 (relative to 1984-5) for the UK. **Table 2** shows noise complaints and prosecutions in 2001 for the UK.

Having studied the tables, answer **all** the following questions:

- (a) Using **Table 1** construct a bar graph showing the percentage change in complaints received about Road Traffic from 1996-7 to 2000-1. *(4 marks)*
- (b) (i) Using **Table 2** calculate the percentage of complaints received about Commercial/Leisure problems. *(2 marks)*
- (ii) Using **both** tables, make **two** points about domestic noise complaints. *(2 marks)*
- (c) Give reasons for changes in complaints about Road Traffic over the years shown in **Table 1**. *(4 marks)*
- (d) **Table 2** shows information collected from Local Authorities. To what extent is this information of limited value? *(8 marks)*
- (e) “Noise is a damaging intrusion into our personal space.”  
How far is this a matter of *fact* and how far a matter of *opinion*? *(10 marks)*

## PERCENTAGE CHANGE IN NOISE COMPLAINTS RECEIVED BY ENVIRONMENTAL HEALTH OFFICERS (UK)

(Percentage change shown is relative to 1984-5)

COMPLAINT	1984-5 Base Year	1990-1	1991-2	1992-3	1993-4	1994-5	1995-6	1996-7	1997-8	1998-9	1999-0	2000-1
Road Traffic	100	12	59	44	44	46	61	51	27	-5	-7	7
Industrial/commercial premises	100	44	63	74	76	108	131	129	159	101	117	117
Roadworks, construction and demolition	100	157	51	95	71	206	134	147	191	153	198	232
Domestic premises	100	82	111	52	179	217	293	306	306	248	314	302

Source: adapted from *The Digest of Environmental Statistics* (Department for Environment, Food and Rural Affairs) November 2002

Table 1

## NOISE COMPLAINTS AND PROSECUTIONS (UK) 2001

Data has been collected from Local Authorities – 82% responded.

Type of complaint	Industrial	Commercial/ Leisure	Domestic	Construction/ Demolition	Vehicles/ Machinery in streets	Total
Complaints received	13 130	39 200	228 704	14 133	15 145	310 312
Sources confirmed as a nuisance	2 836	7 606	36 236	3 070	2 543	52 291
Nuisances remedied without notices being served	2 369	5 575	26 781	2 151	1 578	38 454
Notices served	241	1 548	7 245	875	840	10 749
Prosecutions	10	106	565	28	2	711
Convictions	5	82	453	13	2	555

Table 2

Source: adapted from Chartered Institute for Environmental Health website

2

**Total for this question: 30 marks**

Look carefully at the tables opposite. **Table 3** shows the contribution of agriculture to the regional economy in 2001. **Table 4** shows the area of land converted to organic farming from 1995–2000.

Having studied the tables, answer **all** the following questions:

- (a) (i) Using **Table 3** calculate the percentage of the UK workforce employed in agriculture. *(2 marks)*
- (ii) Work out the mean of the contribution (£ millions) from the North East, North West, East Midlands and West Midlands. *(2 marks)*
- (b) **Table 3** includes information about the agricultural workforce in the English Regions. Give reasons for the differences. *(4 marks)*
- (c) Give reasons why the data in **Table 4** might be of limited value. *(4 marks)*
- (d) Using **Table 4** and your own knowledge give reasons for the rise in area of land converted to organic farming. *(8 marks)*
- (e) “Smaller farms will fail in the present economic climate.”  
How far is this a valid assertion? *(10 marks)*

**END OF QUESTIONS**

## AGRICULTURE'S CONTRIBUTION TO THE REGIONAL ECONOMY (UK 2001)

	Total contribution to the area (£ millions)	Agriculture's percentage contribution	Workforce in Agriculture (thousands)	Total workforce in employment (thousands)
<b>United Kingdom</b>	6 535	0.8	556	27 662
England	4 860	0.7	372	24 488
Wales	362	1.1	56	1 076
Scotland	848	1.2	70	1 367
Northern Ireland	465	2.6	58	731
<b>English Regions</b>				
North East	140	0.5	12	1 076
North West	430	0.5	40	3 171
Yorkshire and Humberside	687	1.1	40	2 300
East Midlands	675	1.2	43	1 921
West Midlands	565	0.8	46	2 555
East of England	979	1.1	54	2 518
South East + London	631	0.2	57	8 583
South West	753	1.2	80	2 364

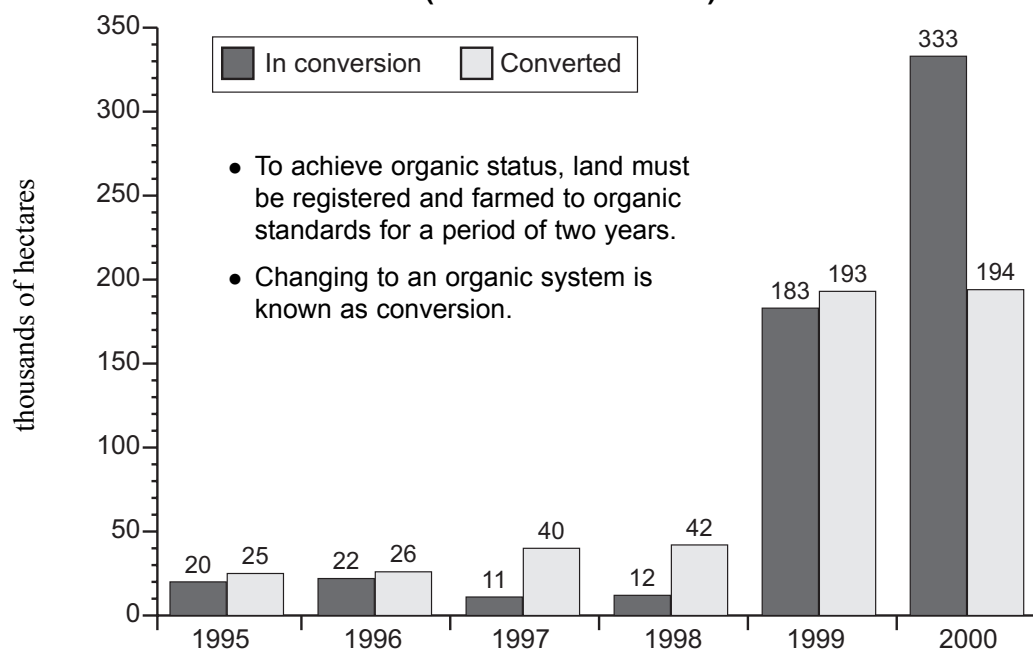
Source: adapted from (Ministry of Agriculture, Food and Fisheries) MAFF

Table 3



### GREEN & PLEASANT LAND

#### Area of land converted to organic farming (thousand hectares)



Source: Organic Farming, UK, 1995-2000 (Ministry for Agriculture, Food and Fisheries) 2001

Table 4

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