



**Cambridge Assessment International Education**  
Cambridge International General Certificate of Secondary Education

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**GEOGRAPHY**

**0460/41**

Paper 4 Alternative to Coursework

**October/November 2019**

INSERT

**1 hour 30 minutes**

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**READ THESE INSTRUCTIONS FIRST**

This Insert contains Figs. 1.1, 1.2, 1.3, 1.4 and 1.7 and Tables 1.1, 1.2 and 1.3 for Question 1, and Fig. 2.1 and Tables 2.1 and 2.2 for Question 2.

The Insert is **not** required by the Examiner.



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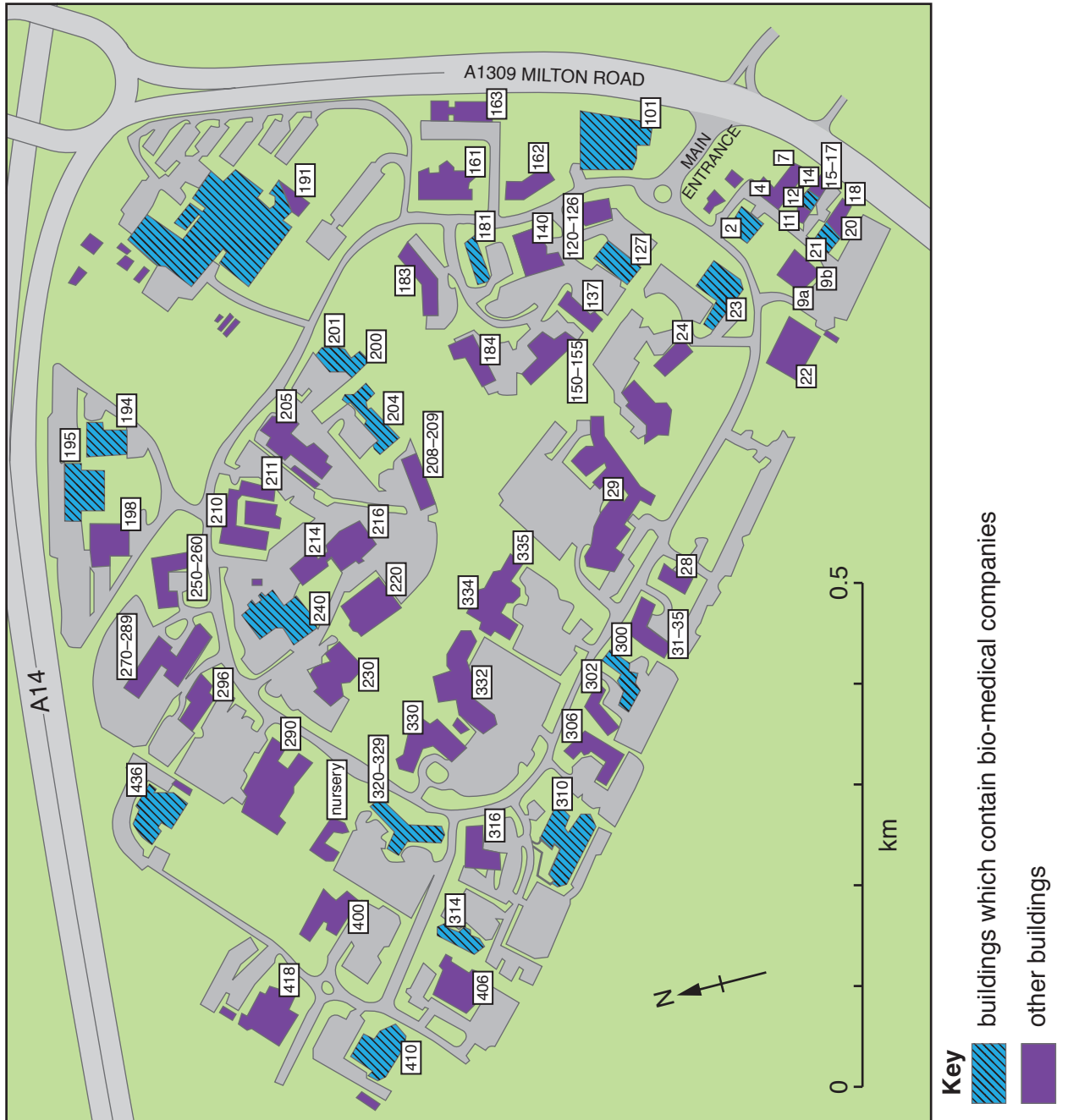
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This document consists of **10** printed pages and **2** blank pages.

Fig. 1.1 for Question 1  
High technology industrial area in 2006



Fig. 1.2 for Question 1  
High technology industrial area in 2016



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**Figs. 1.3 and 1.4 for Question 1**

**Two views of the industrial area**



**Fig. 1.3**



**Fig. 1.4**

Table 1.1 for Question 1

## Companies in each industrial sector

High technology industries in the industrial area	Number of companies in 2016	Percentage of total number of companies
Bio-medical	21	31
Computer / telecommunications	17	25
Energy	1	2
Environmental	3	5
Financial / business	6	9
Industrial technologies	7	10
Technical consulting	5	8
Other industries	7	10
Total	67	100

Table 1.2 for Question 1

## Comparison of numbers of companies in each industrial sector

High technology industries in the industrial area	Number of companies in 2006	Number of companies in 2016
Bio-medical	28	21
Computer / telecommunications	7	17
Energy	4	1
Environmental	26	3
Financial / business	5	6
Industrial technologies	7	7
Technical consulting	6	5
Other industries	10	7
Total	93	67

Fig. 1.7 for Question 1

**Employee questionnaire**

I am a student at the nearby college. I am doing this questionnaire as part of my Geography coursework. I want to find out about the qualifications of people who work in this industrial area. Please will you answer the following questions?

1. Which **one** of the following is your highest academic qualification?

School qualification (e.g. IGCSE)

Higher school qualification (e.g. A level or International Baccalaureate)

University degree (e.g. BA or BSc)

Higher university degree (e.g. Master's degree or PhD)

2. Do you think your job is highly skilled?

Yes

No

3. If you answered 'Yes' why do you think your job is highly skilled?

.....

.....

.....

4. What are the main benefits which you get from your job?

.....

.....

.....

Thank you for your time

Table 1.3 for Question 1

## Answers to questionnaire

Question 1: Which one of the following is your highest academic qualification?

Qualification	Number of answers
School qualification	1
Higher school qualification	7
University degree	<b>23</b>
Higher university degree	<b>19</b>

Question 2: Do you think your job is highly skilled?

Yes = 45	No = 5
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Question 3: Why do you think your job is highly skilled?

Reason	Number of answers
I am able to give advice and support to other people and companies.	34
I understand how the results of my work can be used in other industries.	33
I receive a lot of training to understand what I need to do in my work.	38
I use complex machinery and technology in my work.	36

Fig. 2.1 for Question 2

Weather instrument





Table 2.1 for Question 2

## Atmospheric pressure and rainfall data

	Time	Measurement number	Atmospheric pressure (mb)	Rainfall during last three hours (mm)
Day 1	10:00	1	1009	0.1
	13:00	2	1008	0.5
	16:00	3	1005	0.6
	19:00	4	1003	0.4
	22:00	5	1002	0.2
Day 2	01:00	6	1001	3.6
	04:00	7	999	1.0
	07:00	8	998	<b>2.8</b>
	10:00	9	997	0.8
	13:00	10	997	4.6
	16:00	11	998	3.9
	19:00	12	999	2.0
	22:00	13	1002	0.1
Day 3	01:00	14	1003	0.1
	04:00	15	1004	0.1
	07:00	16	1005	0.1
	10:00	17	1007	0.2
	13:00	18	1010	0
	16:00	19	1011	0
	19:00	20	1011	0
	22:00	21	1013	0
Day 4	01:00	22	1016	0
	04:00	23	1015	0
	07:00	24	1017	0

Table 2.2 for Question 2

## Wind direction and temperature data

	Time	Measurement number	Direction wind came from	Temperature to nearest degree (°C)
Day 1	10:00	1	SE	11
	13:00	2	SE	13
	16:00	3	SE	11
	19:00	4	ESE	<b>12</b>
	22:00	5	ESE	<b>10</b>
Day 2	01:00	6	SSE	9
	04:00	7	S	10
	07:00	8	S	9
	10:00	9	SSE	10
	13:00	10	SSE	12
	16:00	11	NNW	10
	19:00	12	NNW	9
	22:00	13	NW	7
Day 3	01:00	14	NNW	7
	04:00	15	NNW	6
	07:00	16	N	5
	10:00	17	N	7
	13:00	18	NNW	9
	16:00	19	NNW	8
	19:00	20	NNW	7
	22:00	21	N	4
Day 4	01:00	22	N	4
	04:00	23	N	3
	07:00	24	N	3

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