



GEOGRAPHY

0460/41

Paper 4 Alternative to Coursework

October/November 2019

INSERT

1 hour 30 minutes

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.

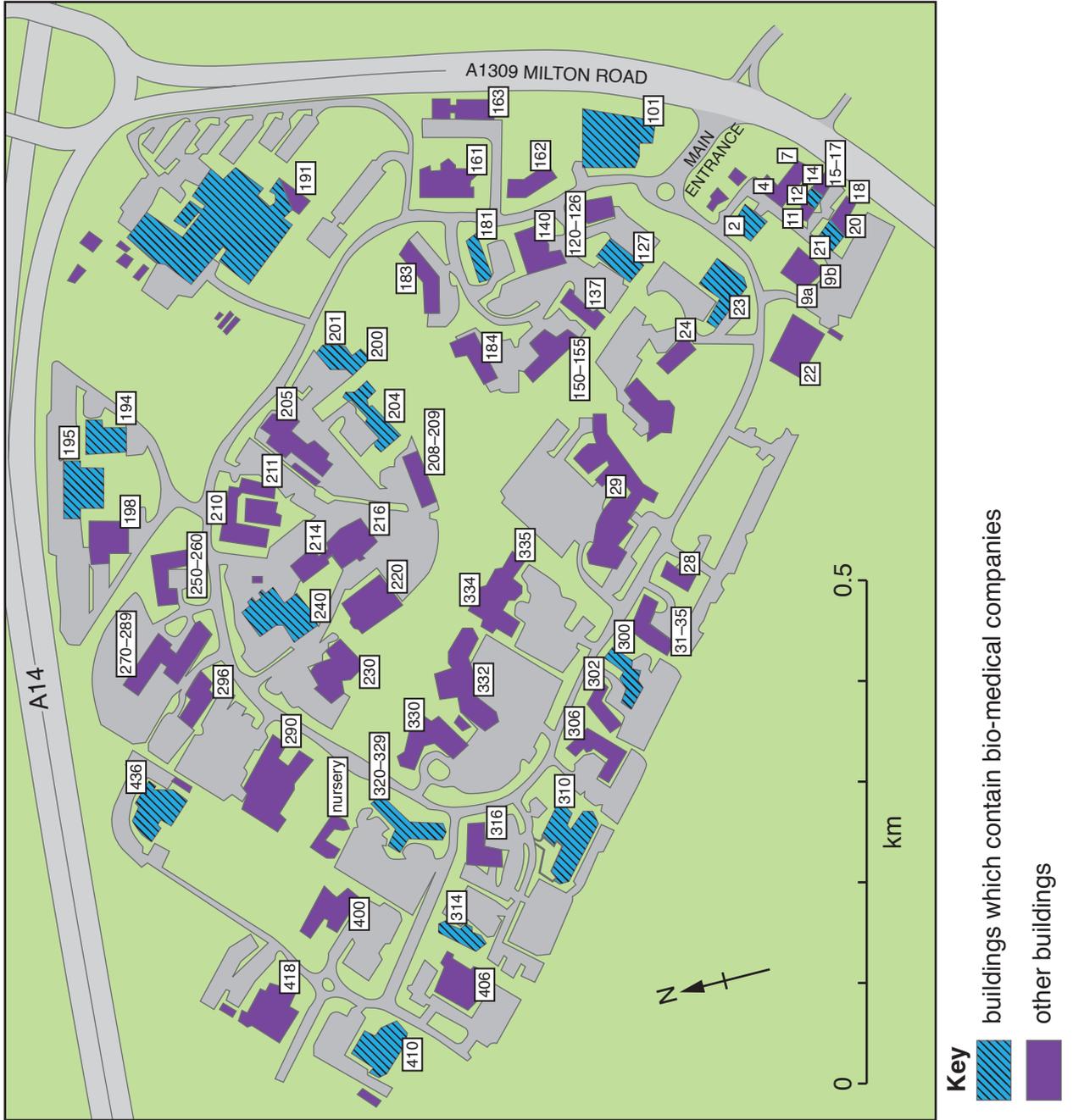
The Insert is **not** required by the Examiner.



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



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



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	23
Higher university degree	19

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	2.8
	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	12
	22:00	5	ESE	10
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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