Cambridge IGCSE

Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

GEOGRAPHY **0460/43**

Paper 4 Alternative to Coursework **October/November 2019**

INSERT

1 hour 30 minutes

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READ THESE INSTRUCTIONS FIRST

The Insert contains Figs. 1.1, 1.2, 1.3 and 1.5 and Tables 1.1 and 1.2 for Question 1, and Figs. 2.1, 2.2 and 2.5 and Tables 2.2 and 2.3 for Question 2.

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

This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **11** printed pages and **1** blank page.

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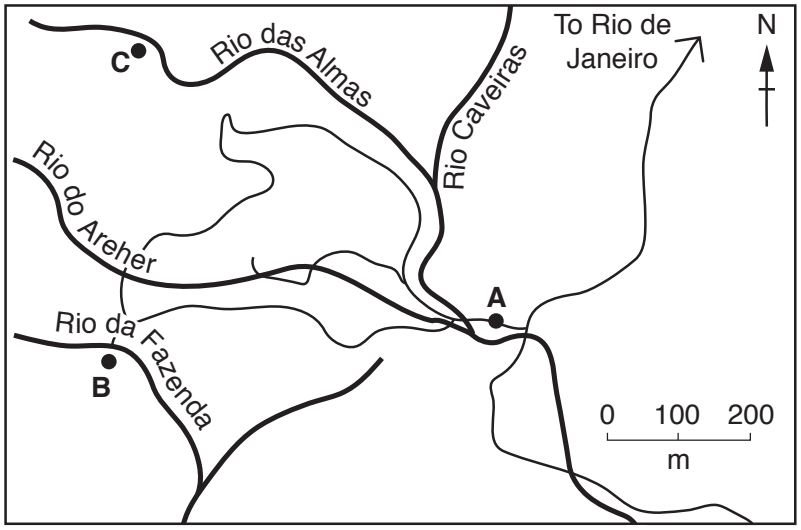
Fig. 1.1 for Question 1

Three fieldwork sites

Site A is located 460 m above sea level. It is a popular site for people to visit. The site contains a car park and picnic tables from which footpaths lead into the forest. Tourist developments have changed the original forest so it is less dense than originally.

Site B is located 560 m above sea level. Much of the original vegetation was removed to create a coffee plantation. Since the plantation was closed the natural vegetation has grown back but the vegetation is less dense than it was originally.

Site C is located 685 m above sea level. It is an area of natural rainforest which is less accessible than sites A and B. Little development has taken place here.



Key

● **A**,**B**,**C** fieldwork sites

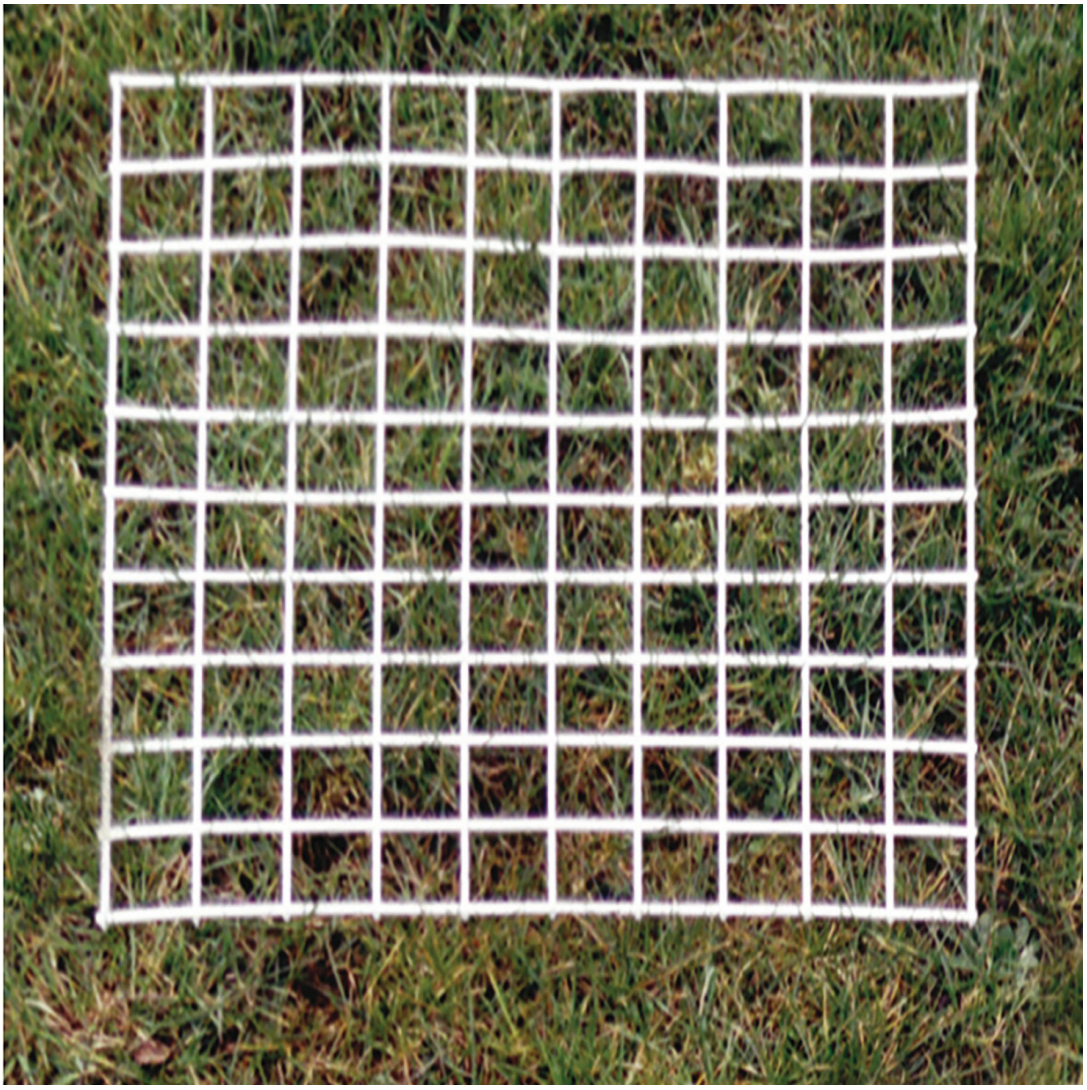
river

road

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Fig. 1.2 for Question 1

Fieldwork equipment



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Fig. 1.3 for Question 1

How to measure humidity

We used cobalt chloride paper to measure the humidity of the air. This paper is blue when it is dry and turns pink when exposed to humid air. We took a piece of cobalt chloride paper from the dry container where it had been kept and held it in the air. We used a stopwatch to measure how long it took for the paper to change from blue to pink. **The faster this change of colour occurred, the greater the humidity of the air.**



DRY air



HUMID air

Table 1.1 for Question 1

Results of students' measurements

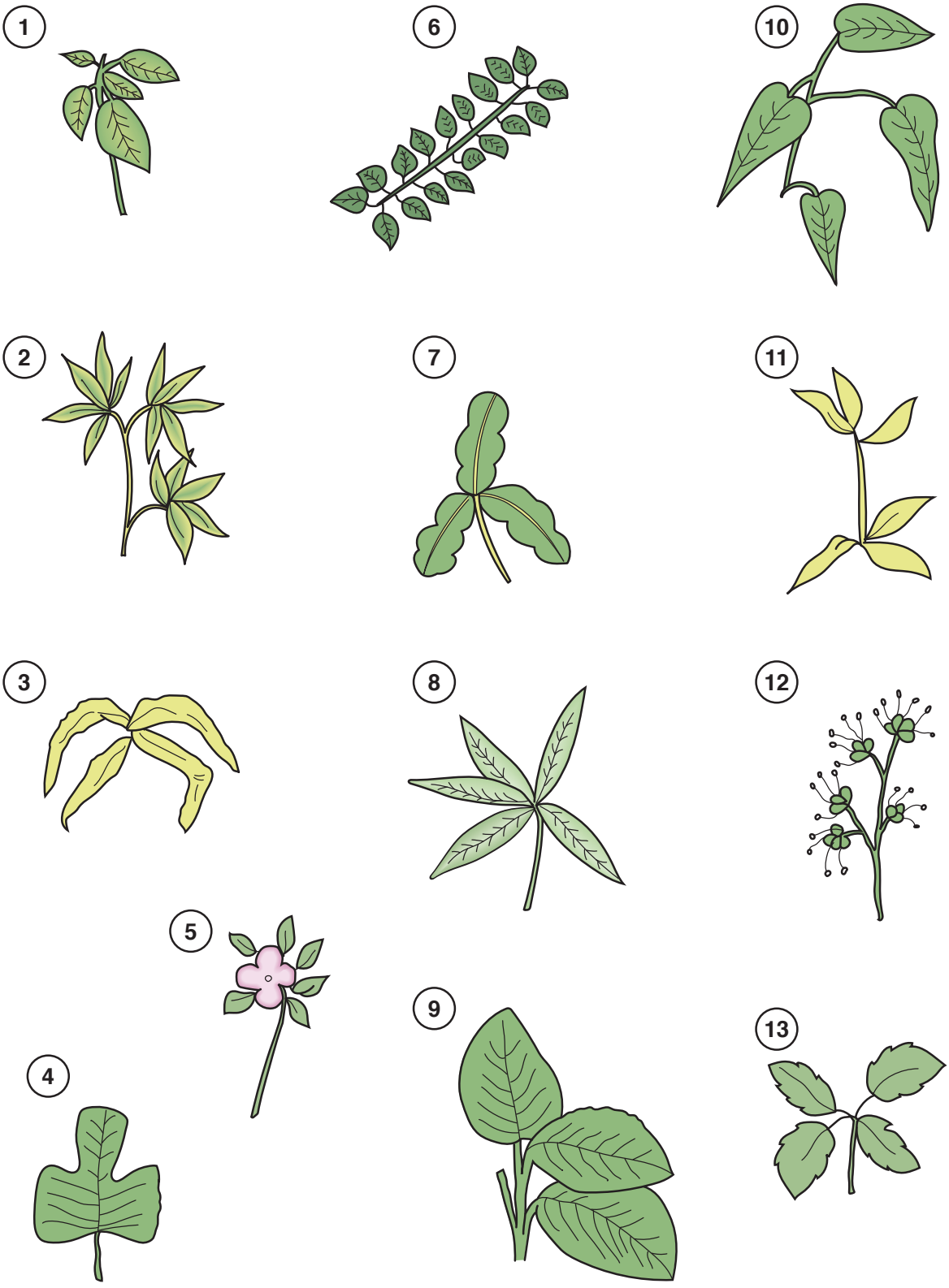
	Measure-ment 1	Measure-ment 2	Measure-ment 3	Measure-ment 4	Measure-ment 5	Average
Site A						
Percentage of vegetation cover	36	20	8	38	19	24.2
Percentage of bare ground	64	80	92	62	81	75.8
Humidity measurement (seconds)	60	52	46	49	56	52.6
Infiltration time (seconds)	36	40	58	60	44	47.6
Site B						
Percentage of vegetation cover	65	48	68	28	12	44.2
Percentage of bare ground	35	52	32	72	88	55.8
Humidity measurement (seconds)	100	175	135	129	**125**	132.8
Infiltration time (seconds)	25	35	21	48	52	
Site C						
Percentage of vegetation cover	72	68	**80**	57	65	68.4
Percentage of bare ground	28	32	**20**	43	35	31.6
Humidity measurement (seconds)	96	90	103	115	84	97.6
Infiltration time (seconds)	20	28	25	22	**30**	25.0

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Fig. 1.5 for Question 1

Species of vegetation



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Table 1.2 for Question 1

Different species* identified by students

Species reference number	1	2	3	4	5	6	7	8	9	10	11	12	13
Site A	✓	✓				✓		✓		✓		✓	
Site B	✓	✓	✓	✓	✓				✓		✓		
Site C	✓	✓	✓	✓			✓	✓	✓		✓		✓

*Species reference number in Fig. 1.5

Key
✓ species seen at the site

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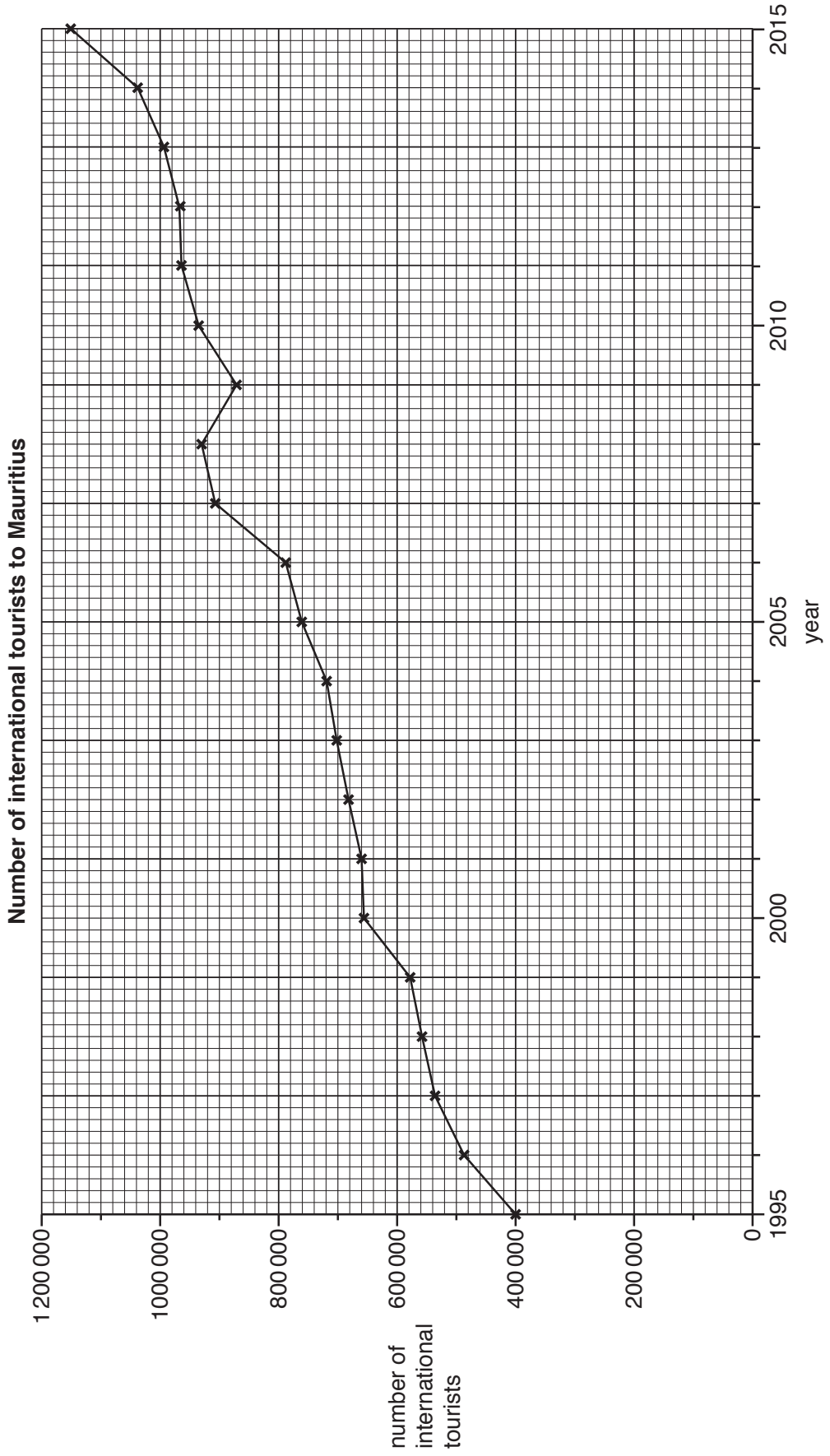


Fig. 2.1 for Question 2

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Fig. 2.2 for Question 2

Tourist questionnaire

We are doing a tourism survey as part of our Geography fieldwork. Please answer the following questions.

1. Which continent do you come from?

☐ Asia ☐ Africa ☐ Europe

☐ Australasia ☐ North America ☐ South America

2. Which of the following physical landscape attractions are you visiting in Mauritius?

☐ Black River Gorges National Park ☐ Casela Bird Park

☐ Chamarel coloured earths ☐ Grand Baie beach

☐ Ile aux Cerfs ☐ National Botanical Garden

☐ Rochester Falls

3. Which of the following human landscape attractions are you visiting in Mauritius?

☐ Cap Malheureux church ☐ Chamarel distillery

☐ Fort Adelaide ☐ Flic-en-Flac

☐ Grand Bassin temples ☐ Le Caudan waterfront

☐ Port Louis market

4. Overall which attracted you most to Mauritius?

☐ Physical landscape attractions ☐ Human landscape attractions

Thank you for your time.

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Table 2.2 for Question 2

Answers to Questions 2 and 3 of the tourist questionnaire

Q2 Physical landscape attractions	Number of visits
Black River Gorges National Park	30
Casela Bird Park	**34**
Chamarel coloured earths	67
Grand Baie beach	49
Ile aux Cerfs	51
National Botanical Garden	38
Rochester Falls	21
Total	290

Q3 Human landscape attractions	Number of visits
Cap Malheureux church	22
Chamarel distillery	12
Fort Adelaide	25
Flic-en-Flac	28
Grand Bassin temples	**45**
Le Caudan waterfront	39
Port Louis market	33
Total	204

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Fig. 2.5 for Question 2

Resident questionnaire

We are doing a tourism survey as part of our Geography fieldwork. Please answer the following questions.

1. Do you live in Mauritius?

☐ Yes

☐ No (Finish interview if 'No')

2. Which are the three main benefits of tourism in Mauritius?

Number your first, second and third choices '1', '2' and '3'.

☐ More jobs and income	☐ Improved standard of living
☐ More modern services	☐ Cleaner environment
☐ Improved transport	☐ More global awareness
☐ Reduction in crime	☐ More goods in shops

3. Which are the three main disadvantages of tourism in Mauritius?

Number your first, second and third choices '1', '2' and '3'.

☐ Noise pollution	☐ Air pollution
☐ Traffic congestion	☐ More crime
☐ Decline of traditional culture	☐ Destruction of natural environment
☐ More litter	☐ Increase in cost of living

4. Overall which do you think are greater in Mauritius?

☐ Benefits of tourism

☐ Disadvantages of tourism

Thank you for your time.

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Table 2.3 for Question 2

Results of resident questionnaire

Question 2: Main benefits of tourism	First choice	Second choice	Third choice	Total index score
More jobs and income	39	25	11	178
Improved standard of living	15	20	28	113
More modern services	4	10	13	45
Cleaner environment	5	2	3	22
Improved transport	12	10	14	**70**
More global awareness	3	19	11	58
Reduction in crime	10	9	7	55
More goods in shops	12	5	13	59

Question 3: Main disadvantages of tourism	First choice	Second choice	Third choice	Total index score
Noise pollution	7	12	10	55
Air pollution	26	16	12	**122**
Traffic congestion	27	23	18	145
More crime	5	7	8	37
Decline of traditional culture	11	8	16	65
Destruction of natural environment	5	12	15	54
More litter	7	14	12	61
Increase in cost of living	12	8	9	61

Question 4: Overall effect of tourism	Answers
Benefits	87
Disadvantages	13

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