

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

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.



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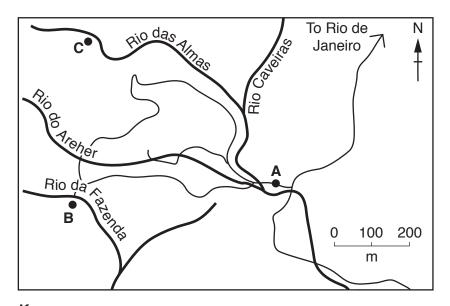
Fig. 1.1 for Question 1

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

● A,B,C fieldwork sites



Fig. 1.2 for Question 1

Fieldwork equipment

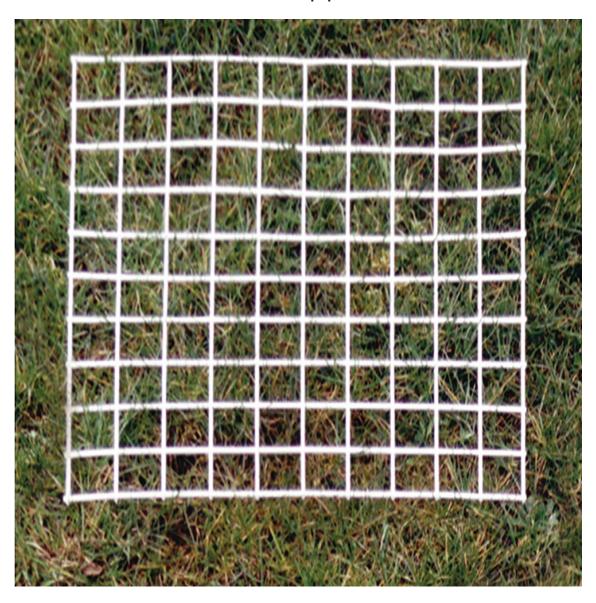


Fig. 1.3 for Question 1

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.

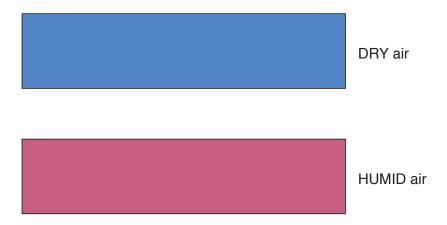


Table 1.1 for Question 1

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

Fig. 1.5 for Question 1

Species of vegetation

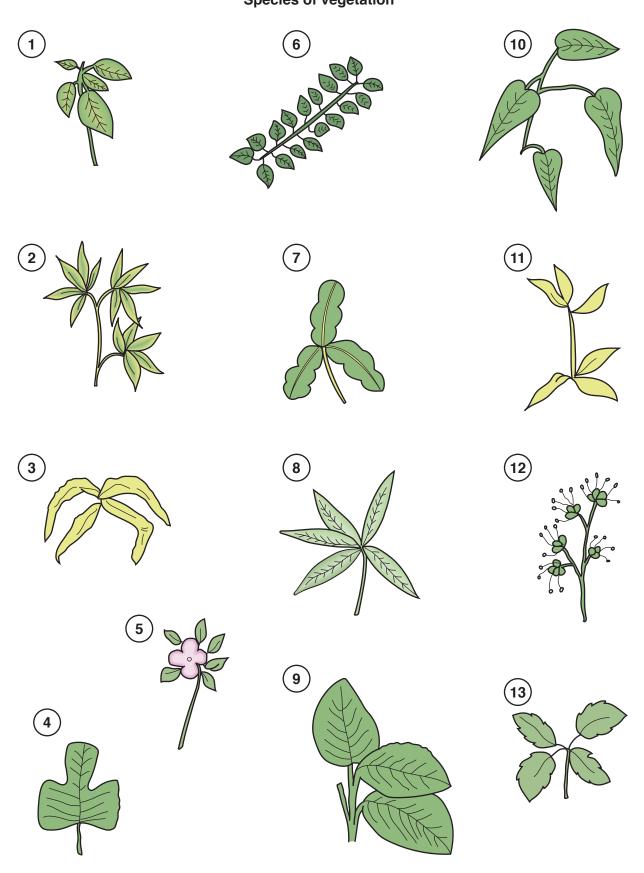


Table 1.2 for Question 1

Different species* identified by students

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

^{*}Species reference number in Fig. 1.5

Key

✓ species seen at the site

Fig. 2.1 for Question 2

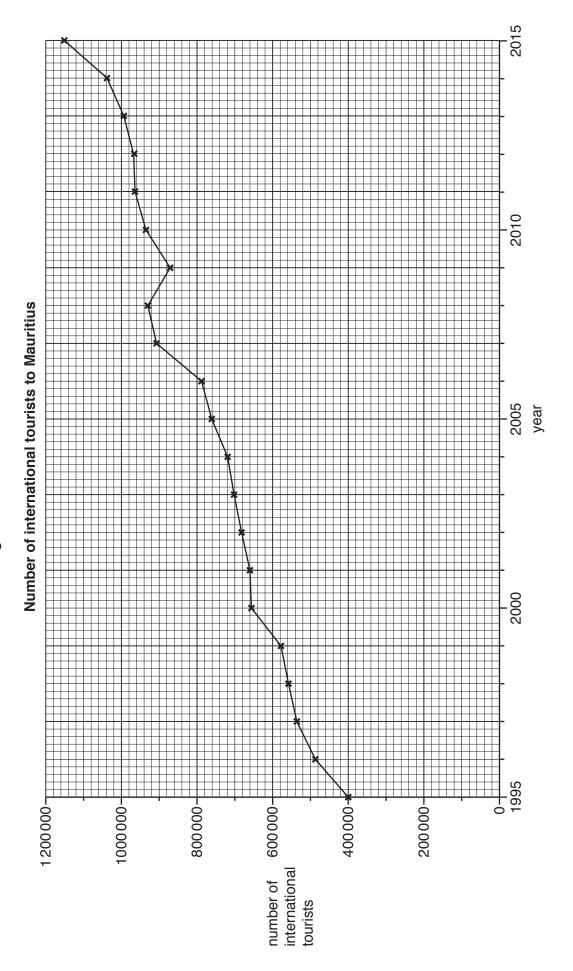


Fig. 2.2 for Question 2

Tourist questionnaire

		doing a tourism sur g questions.	rvey as p	oart of ou	r Geogi	raphy field	work. Please answer th	1e
1. Wh	ich	continent do you o	come fro	m?				
		Asia		Africa			Europe	
		Australasia		North A	merica		South America	
2. Wh	iich	of the following p	hysical l	andscape	attract	tions are yo	ou visiting in Mauritius	?
		Black River Gorge	s Nation	al Park		Casela Bir	d Park	
		Chamarel coloured	d earths			Grand Bai	e beach	
		Ile aux Cerfs				National B	Botanical Garden	
		Rochester Falls						
3. Wh	iich	of the following h	uman lar	ndscape a	ttractio	ons are you	visiting in Mauritius?	
		Cap Malheureux c	hurch			Chamarel	distillery	
		Fort Adelaide				Flic-en-Flo	ac	
		Grand Bassin temp	oles			Le Caudan	waterfront	
		Port Louis market						
4. Ove	era	ll which attracted	you mos	t to Maur	?euiti			
		Physical landscape	attract	ions		Human lan	dscape attractions	
Thank	< yo	ou for your time.						

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
lle 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

Fig. 2.5 for Question 2

Resident questionnaire

	doing a tourism survey as pa g questions.	rt of our <i>G</i>	eography fieldwork. Please answer the				
1. Do you	u live in Mauritius?						
	Yes						
	No	(Finish inte	rview 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. Whicl	h are the three main disadvar	ntages of to	ourism in Mauritius?				
Number	your first, second and third	choices '1',	'2' and '3'.				
	Noise pollution		Air pollution				
	Traffic congestion		More crime				
	Decline of traditional cultur	'e	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 y	ou for your time.						

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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