



Cambridge IGCSE™

GEOGRAPHY

0460/42

Paper 4 Alternative to Coursework

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INSERT

1 hour 30 minutes

INFORMATION

- This insert contains additional resources referred to in the questions.
- You may annotate this insert and use the blank spaces for planning. **Do not write your answers** on the insert.



This document has **8** pages.

Table 1.1 for Question 1

Average number of storeys at selected sites

transect	in the CBD	2 km away from CBD	4 km away from CBD
North	7.5	2.6	1.0
East	10.3	6.0	1.0
South	6.3	1.5	1.8
West	8.2	1.4	1.6

Fig. 1.3 for Question 1

Environmental quality scoring sheet

feature	description	score
Litter and vandalism	No litter or vandalism	3
	Small amount of litter or vandalism	2
	Litter or vandalism is common	1
	Litter or vandalism is widespread	0
Vegetation (trees and grass)	All vegetation is tidy and good quality	3
	Some vegetation is tidy and good quality	2
	Little and/or poor quality vegetation	1
	No vegetation	0
Derelict land	No derelict land	3
	Small area of derelict land	2
	Large area of derelict land	1
	All land is derelict	0
Noise	Very quiet	3
	Quiet	2
	Noisy	1
	Very noisy	0
Air pollution	No smells or obvious air pollution	3
	Few smells and/or obvious air pollution	2
	Some smells and/or obvious air pollution	1
	Many smells and/or very obvious air pollution	0

Table 1.2 for Question 1

Environmental quality scores along the east transect from the CBD

feature	in the CBD	2 km from the CBD	4 km from the CBD
Litter and vandalism	2	3	1
Vegetation	2	3	1
Derelict land	3	2	0
Noise	1	2	1
Air pollution	2	3	1
Total score	10	13	4

Table 1.3 for Question 1

Total environmental quality scores along each transect

transect	in the CBD	2 km away from the CBD	4 km away from the CBD
North	9	12	8
East	10	13	4
South	9	11	10
West	10	14	9

Fig. 1.6 for Question 1

Land use in two buildings in the CBD

Building A		Building B
	Storey	
Gymnasium and pool	5th	Finance offices
Bedrooms	4th	Education offices
Bedrooms	3rd	Insurance offices
Bedrooms	2nd	Luxury car showroom
Hotel reception and restaurant	1st	
Gift shops	Ground	

Fig. 2.1 for Question 2

Using a velocity meter

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Table 2.1 for Question 2

Results of velocity measurements

Method 1 (using a floating object)

		velocity (m/sec)				
		site	right side of channel	centre of channel	left side of channel	average
upstream downstream	1	0.2	0.6	0.6	0.5	
	2	0.2	0.5	0.1	0.3	
	3	0.5	1.5	0.9	1.0	
	4	0.6	1.6	0.3	0.8	
	5	1.3	1.5	1.6	1.5	
	6	1.0	1.4	1.1	1.2	
	7	1.5	2.3	2.2	2.0	

Method 2 (using a velocity meter)

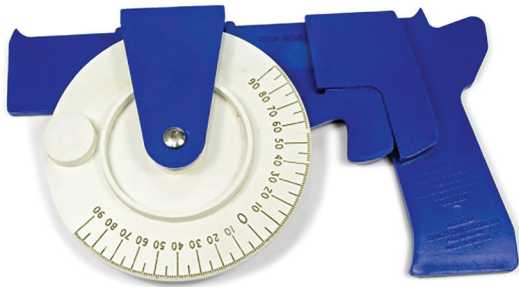
		velocity (m/sec)				
		site	right side of channel	centre of channel	left side of channel	average
upstream downstream	1	0.6	0.9	0.7	0.7	
	2	0.6	1.0	0.8	0.8	
	3	1.1	1.4	1.1	1.2	
	4	1.6	2.0	1.5	1.7	
	5	1.7	2.0	1.5	1.7	
	6	1.7	2.3	1.9	2.0	
	7	2.0	2.4	1.9	2.1	

Fig. 2.3 for Question 2

Equipment used to measure river gradient (angle of slope)



ranging
poles



clinometer



tape measure

Table 2.2 for Question 2

Results of angle of slope measurements

		angle of slope (°) measured over 10 m				
	site	measurement 1	measurement 2	measurement 3	measurement 4	average
upstream 	1	6	7	9	7	7
	2	3	6	5	2	4
	3	3	5	3	2	3
	4	8	2	8	7	6
	5	7	10	9	7	8
	6	11	14	7	5	9
downstream	7	8	6	6	9	7

Note – average figures are to the nearest whole number

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