



# Cambridge IGCSE™

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**GEOGRAPHY**

**0460/42**

Paper 4 Alternative to Coursework

**February/March 2021**

INSERT

**1 hour 30 minutes**

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## 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.



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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	<b>6.0</b>	<b>1.0</b>
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

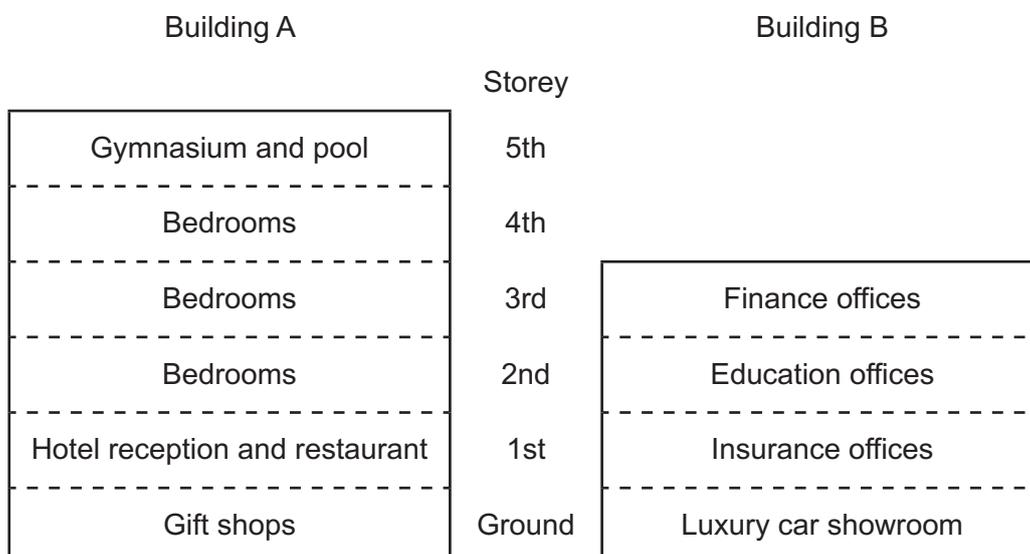
Table 1.3 for Question 1

## 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



**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)			
		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	<b>1.2</b>
	7	1.5	2.3	2.2	<b>2.0</b>

## Method 2 (using a velocity meter)

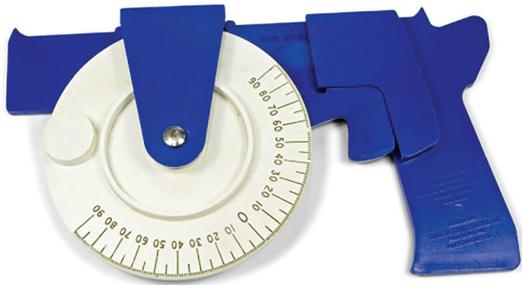
		velocity (m/sec)			
		right side of channel	centre of channel	left side of channel	average
upstream  downstream	1	0.6	0.9	0.7	0.7
	2	0.6	1.0	0.8	0.8
	3	1.1	1.4	1.1	1.2
	4	1.6	2.0	1.5	1.7
	5	1.7	2.0	1.5	1.7
	6	1.7	2.3	1.9	2.0
	7	2.0	2.4	1.9	2.1

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  downstream	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	<b>8</b>
	6	11	14	7	5	9
	7	8	6	6	9	7

Note – average figures are to the nearest whole number

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