Cambridge Assessment International Education

# Cambridge IGCSE™

**GEOGRAPHY** **0460/42**

Paper 4 Alternative to Coursework **February/March 2021**

INSERT **1 hour 30 minutes**

*8148054870-I*

**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.

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**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 |

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**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 |

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[Turn over

**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 |

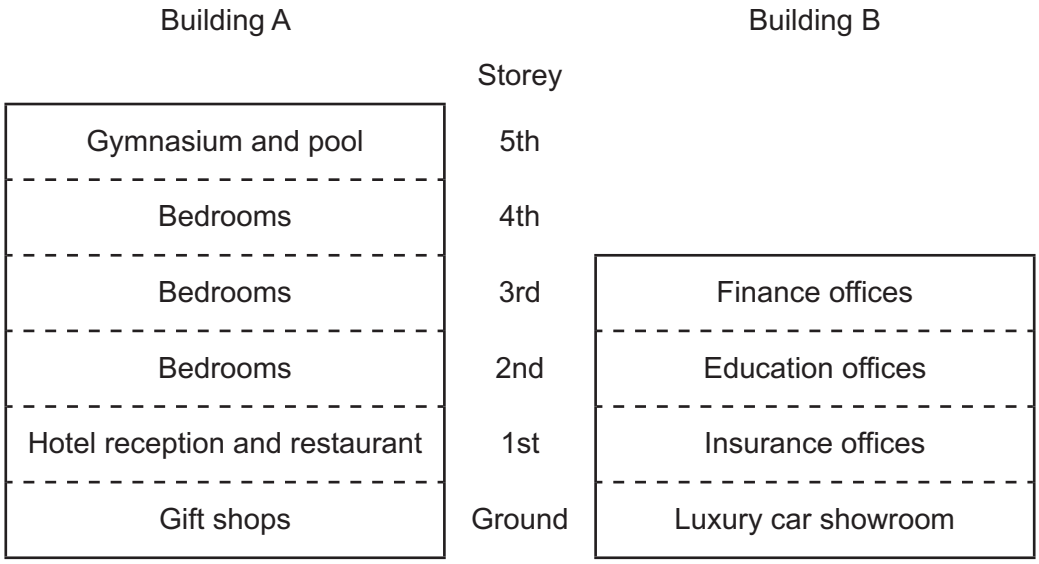
**Table 1.3 for Question 1**

**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**




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**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 | 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** |
| downstream | 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 | 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 |
| downstream | 7 | 2.0 | 2.4 | 1.9 | 2.1 |

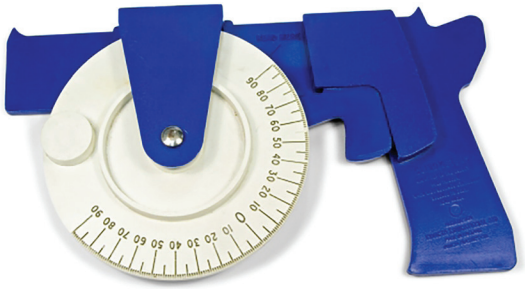
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**Fig. 2.3 for Question 2**

**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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