



Cambridge IGCSE™

GEOGRAPHY

0460/42

Paper 4 Alternative to Coursework

February/March 2021

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

5

Fig. 2.1 for Question 2


Using a velocity meter

Content removed due to copyright restrictions.

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	1.2
	7	1.5	2.3	2.2	2.0

Method 2 (using a velocity meter)


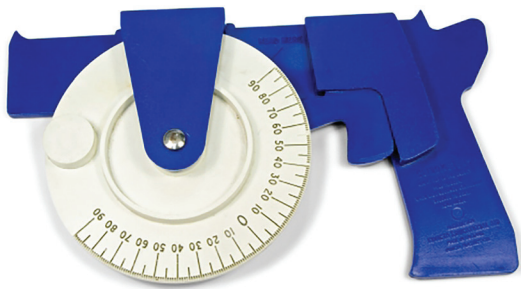
		velocity (m/sec)			
		right side of channel	centre of channel	left side of channel	average
upstream  downstream	1	0.6	0.9	0.7	0.7
	2	0.6	1.0	0.8	0.8
	3	1.1	1.4	1.1	1.2
	4	1.6	2.0	1.5	1.7
	5	1.7	2.0	1.5	1.7
	6	1.7	2.3	1.9	2.0
	7	2.0	2.4	1.9	2.1

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	8
	6	11	14	7	5	9
	7	8	6	6	9	7

Note – average figures are to the nearest whole number

The boundaries and names shown, the designations used and the presentation of material on any maps contained in this question paper/insert do not imply official endorsement or acceptance by Cambridge Assessment International Education concerning the legal status of any country, territory, or area or any of its authorities, or of the delimitation of its frontiers or boundaries.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.