



# Cambridge IGCSE™

---

**GEOGRAPHY**

**0460/43**

Paper 4 Alternative to Coursework

**October/November 2024**

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.

**Fig. 1.1 for Question 1**

**Results of survey about pollution**

**Content removed due to copyright restrictions.**

The scale shows the level of dissatisfaction.  
If the value is 0, it means it is not a problem, and if the value is 100, it is a major problem.

Fig. 1.2 for Question 1

## Visual water pollution survey recording sheet

site number _____																	
category to assess	score to give																
	0 points	1 point	2 points	3 points	4 points												
water clarity	very clear	clear	fairly clear	slightly murky	murky												
colour of the water	very clear and no colour	clear and no colour	slightly brown	dark brown	black or grey												
stones on the bed and sides of the river or lake	clean and bare	clean	lightly covered in brown deposits	coated with brown deposits	covered in brown and grey deposits												
weeds growing in the water	none	a little in shallow water	a lot in shallow water	a lot throughout the water	water is choked with weeds												
grey sewage fungus	none	very little	a little	present in patches	plenty across the surface												
scum/froth/oil on the water surface	none	a few bubbles	noticeable islands of foam	large quantities	covers the whole surface												
rubbish dumped in the water	none	a few small items	a few large items	large and small items	many different large items												
<table border="1"> <thead> <tr> <th>total score</th> <th>overall description</th> </tr> </thead> <tbody> <tr> <td>0–3</td> <td>very clean</td> </tr> <tr> <td>4–9</td> <td>clean</td> </tr> <tr> <td>10–15</td> <td>fairly clean</td> </tr> <tr> <td>16–21</td> <td>slightly polluted</td> </tr> <tr> <td>more than 21</td> <td>badly polluted</td> </tr> </tbody> </table>						total score	overall description	0–3	very clean	4–9	clean	10–15	fairly clean	16–21	slightly polluted	more than 21	badly polluted
total score	overall description																
0–3	very clean																
4–9	clean																
10–15	fairly clean																
16–21	slightly polluted																
more than 21	badly polluted																

Table 1.1 for Question 1

## Students' total visual water pollution scores

site	distance from city centre (km)	total visual water pollution score
1	0.5	12
2	1	25
3	<b>2.5</b>	<b>17</b>
4	4	19
5	6	13
6	7.5	8
7	9.5	22

Fig. 1.5 for Question 1

## Digital pH meter



Table 1.2 for Question 1

## pH measurements and the land uses at the fieldwork sites

site	pH of water	main land uses
1	7.7	shops and offices
2	5.9	railway, main road, manufacturing industry
<b>3</b>	<b>6.4</b>	low-quality housing
4	6.6	low-quality housing
5	7.3	high-quality housing
6	7.9	tertiary industry, green land
7	6.1	squatter settlements

Fig. 2.1 for Question 2

## First part of the students' questionnaire

Rank the following factors in order of how important you think they are in causing infant mortality. **Circle** your decisions.

Rank 1 is **most** important and rank 5 is **least** important.

contaminated water	1	2	3	4	5
inadequate sanitation	1	2	3	4	5
lack of health care	1	2	3	4	5
malnutrition	1	2	3	4	5
overcrowded living conditions	1	2	3	4	5

Table 2.1 for Question 2

## Results of infant mortality question

factor	Percentage (%) of people choosing each rank				
	rank 1	rank 2	rank 3	rank 4	rank 5
contaminated water	8	6	17	33	36
inadequate sanitation	34	26	19	17	4
lack of health care	13	28	39	9	11
malnutrition	41	35	12	9	3
overcrowded living conditions	4	5	<b>13</b>	<b>32</b>	<b>46</b>

Fig. 2.3 for Question 2

## Second part of the students' questionnaire

Village has a library	Village does not have a library	(circle)
1. How often do you read a book? <b>Circle</b> your answer		
regularly	occasionally	rarely      never
2. What most affects how often you read books?		
		tick (✓)
I have time to read		
I am interested in reading		
I have learned how to read		
It is difficult to get books		

Table 2.2 for Question 2

## Answers to question 1 in the questionnaire

## How often do you read a book?

	village with a library (%)	village without a library (%)
regularly	36	19
occasionally	28	21
rarely	19	<b>26</b>
never	17	<b>34</b>

Table 2.3 for Question 2

## Answers to question 2 in the questionnaire

## What most affects how often you read books?

	village with a library	village without a library
I have time to read	31	25
I am interested in reading	24	7
I have learned how to read	32	16
It is difficult to get books	13	52
total	100	100

---

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](http://www.cambridgeinternational.org) after the live examination series.

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