Cambridge Assessment International Education

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GEOGRAPHY **0460/43**

Paper 4 Alternative to Coursework **October/November 2024**

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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Fig. 1.1 for Question 1

Results of survey about pollution

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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.

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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

total score	**overall description**
0–3	very clean
4–9	clean
10–15	fairly clean
16–21	slightly polluted
more than 21	badly polluted

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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	**2.5**	**17**
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
3	**6.4**	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

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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	**13**	**32**	**46**

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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? (Circle) 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	**26**
never	17	**34**

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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

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