

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

GEOGRAPHY 0460/41

Paper 4 Alternative to Coursework

May/June 2011

INSERT

1 hour 30 minutes

READ THESE INSTRUCTIONS FIRST

This Insert contains Figs 1 and 2 for Question 1 and Figs 4 and 6 and Tables 3 and 4 for Question 2.

The Insert is **not** required by the Examiner.

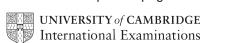
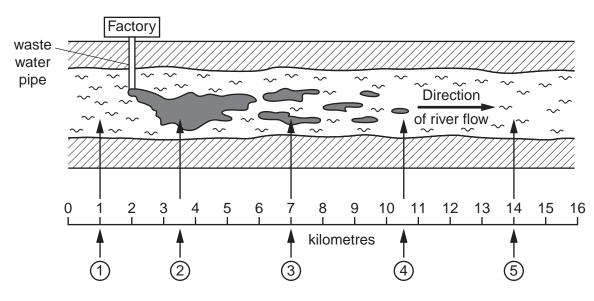


Fig. 1 for Question 1

Results of study into pollution of the river



Key

- 1 Testing site for Hypothesis 2
- Visible pollutants

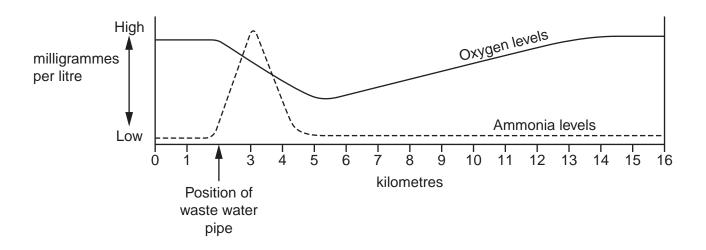


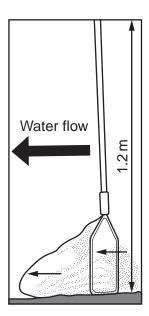
Fig. 2 for Question 1

Pollution investigation using indicator species

Many animals which live on the river bed cannot survive if the water quality is poor. When certain animal species are found in the river this tells you about the quality of the water. These are called indicator species which are shown on the Biotic Index.

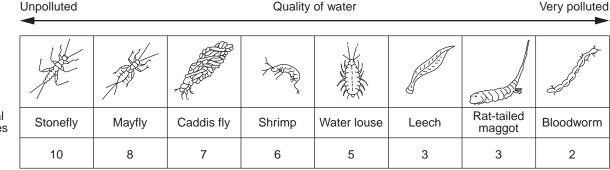
To find these animal species the river bed should be gently disturbed for 30 seconds by gentle kicking to dislodge the stones (this is called kick-sampling). Catch the animals which are washed into a net and then empty the net into a tray to count and identify the species. Put the animals back in the river after identifying them. Do the test at least three times at each investigation site.

Use the Biotic Index to compare the level of pollution at different sites.



Kick-sampling net

Biotic Index



Animal species Biotic

Fig. 4 for Question 2

Tourist questionnaire

We are doing a tourism survey as part of the following questions?	f our Geography c	oursework. Please will you answer
1. Which continent do you come from?		
Asia A	Africa	Europe
Oceania N	North America	South America
2. What are the main physical attraction	ons you are visitin	g whilst in Chiang Mai?
Mae Klang waterfall		Doi Inthanon Mountain
Fang Hot Springs		Botanical Gardens
Elephant camp		Orchid and Butterfly farms
Ob Luang Gorge		
3. What are the main human attractions	s you are visiting v	vhilst in Chiang Mai?
Hill tribe villages		National museum
Shopping at the night bazaar		Buddhist temples
Bhubing Palace		Muang Kung Earthenware village
Royal pagodas		
4. Overall which attracted you most to (Chiang Mai?	
Physical attractions		Human attractions
Thank you for your time.		

Table 3 for Question 2

Answers to Questions 2, 3 and 4 of tourist questionnaire

Q2 Physical attractions	Number of visits made
Mae Klang waterfall	35
Doi Inthanon Mountain	48
Fang Hot Springs	17
Botanical Gardens	12
Elephant camp	34
Orchid and Butterfly farms	6
Ob Luang Gorge	18
Total	170
Q3 Human attractions	Number of visits made
Hill tribe villages	23
National museum	10
Shopping at the night bazaar	45
Buddhist temples	37
Bhubing Palace	6
Muang Kung Earthenware village	11
Royal pagodas	8
Total	140
Q4 Overall opinion	Number of tourists
Physical attractions	38
Human attractions	32

Fig. 6 for Question 2

Local people questionnaire

	doing a tourism survey as part of our Geog wing questions?	graphy (coursework. Please will you answer	
1. Do yo	u live in Chiang Mai?			
	Yes			
	No	(Finis	h interview if 'No')	
2. What do you think are the main positive impacts of tourism in Chiang Mai? Number your first and second choices '1' and '2'.				
	More jobs and income		Improved standard of living	
	More modern services		Cleaner environment	
	Improved infrastructure e.g. airport, ro	ads		
	Reduction in crime		Greater range of goods in shops	
	Local people have greater global awarene	ess		
3. What do you think are the main negative impacts of tourism in Chiang Mai? Number your first and second choices '1' and '2'.				
	Noise pollution		Air pollution	
	Traffic congestion		Increase in crime	
	Decline of traditional culture and way of	life		
	Increase in litter		Increase in cost of living	
Destruction of natural environment for hotels, shops etc.				
4. Overd	ıll do you think tourism has a positive or ne	egative	impact in Chiang Mai?	
	Positive			
	Negative			
Thank yo	ou for your time.			

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Table 4 for Question 2

Answers to Questions 2, 3 and 4 of local people questionnaire

Q2 Positive impacts of tourism	First choice	Second choice	Total score using formula
More jobs and income	27	15	69
Improved standard of living	7	12	26
More modern services	2	6	10
Cleaner environment	3	1	7
Improved infrastructure	8	6	22
Reduction in crime	1	12	14
Greater range of goods in shops	6	6	18
Local people have greater global awareness	7	3	17
Total	61	61	

Q3 Negative impacts of tourism	First choice	Second choice	Total score using formula
Noise pollution	4	7	15
Air pollution	16	10	
Traffic congestion	17	14	48
Increase in crime	3	4	10
Decline of traditional culture and way of life	7	5	19
Increase in litter	3	7	13
Increase in cost of living	4	9	17
Destruction of natural environment	7	5	19
Total	61	61	

Q4 Overall impact of tourism	Answers
Positive	53
Negative	8

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