

GEOGRAPHY

Paper 4 Alternative to Coursework **INSERT**

0460/41 May/June 2011

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.

This document consists of 7 printed pages and 1 blank page.



UNIVERSITY of CAMBRIDGE International Examinations

[Turn over



2



Results of study into pollution of the river

www.theallpapers.com

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



www.theallpapers.com

Fig. 4 for Question 2

Tourist	questior	naire
---------	----------	-------

We are doing a tourism survey as part of our Ge the following questions?	eography coursework. Please will you answer
1. Which continent do you come from?	
Asia Africa	Europe
Oceania North A	merica South America
2. What are the main physical attractions you	are visiting 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 you are	e visiting whilst in Chigna Mai2
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 I	Nai?
Physical attractions	Human attractions
Thank you for your time.	

Table	3 for	Question	2
-------	-------	----------	---

5

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
	32

Answers to Questions 2, 3 and 4 of tourist questionnaire

Fig. 6 for Question 2

Local people questionnaire

We are doing a tourism survey as part of our Ge the following questions?	eography (coursework. Please will you answer		
1. Do you 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,	roads			
Reduction in crime		Greater range of goods in shops		
Local people have greater global aware	eness			
3. What do you think are the main negative impo Number your first and second choices '1' and		urism in Chiang Mai?		
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 fo	or hotels,	shops etc.		
4. Overall do you think tourism has a positive or	negative	impact in Chiang Mai?		
Positive				
Negative				
Thank you for your time.				

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

BLANK PAGE

8

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.

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