

#### **GEOGRAPHY**

Paper 2 INSERT

2217/21 May/June 2011

2 hours 15 minutes

### **READ THESE INSTRUCTIONS FIRST**

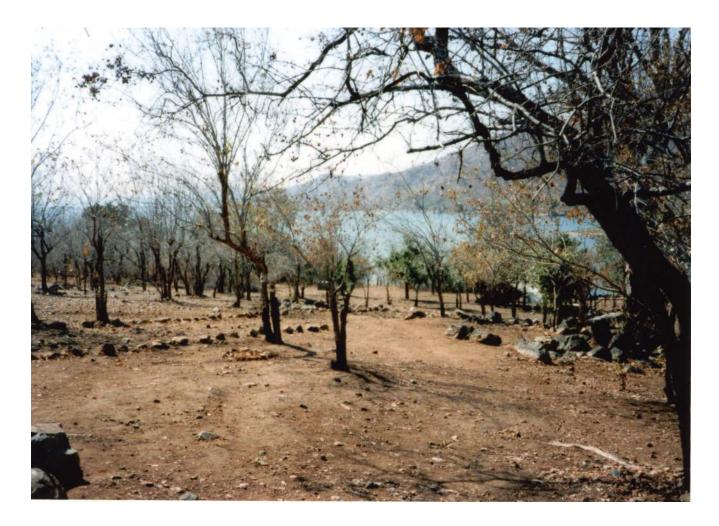
This Insert contains Photograph A for Question 3, Figs 11 and 12 for Question 7, and Figs 14 and 16 and Tables 5 and 6 for Question 8.

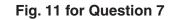
The Insert is **not** required by the Examiner.

This document consists of 8 printed pages and 4 blank pages.

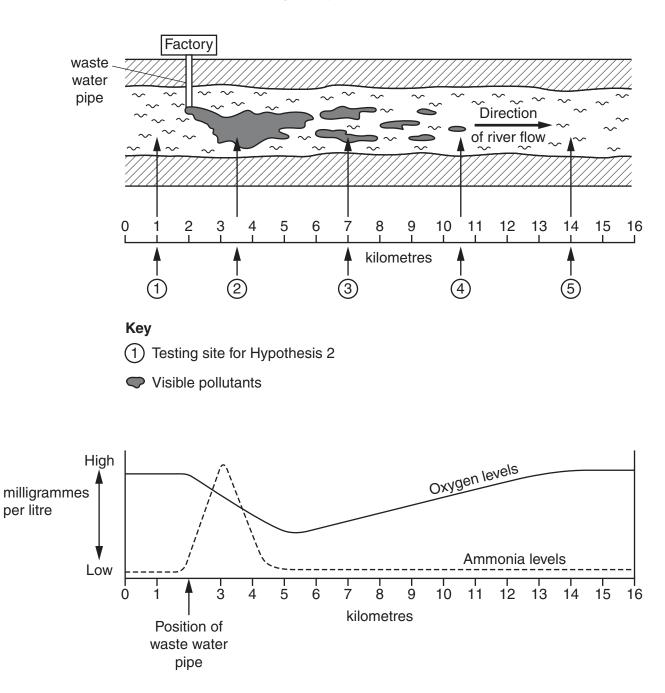


# Photograph A for Question 3





4



### Results of study into pollution of the river

https://xtremepape.rs/

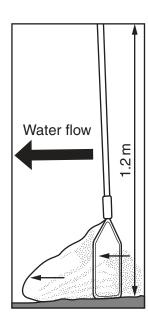
### Pollution investigation using indicator species

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.

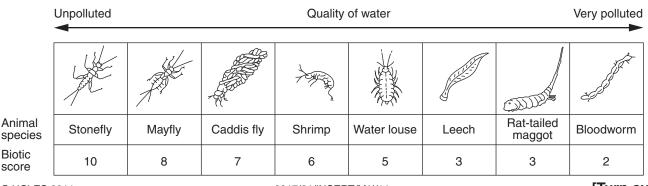
Use the Biotic Index to compare the level of pollution at different sites.





Kick-sampling net

**Biotic Index** 



© UCLES 2011

[Turn over

# Fig. 14 for Question 8

Tourist		
Iourist	question	naire

We are doing a tourism survey as part of our Geogra the following questions?	aphy coursework. Please will you answer
1. Which continent do you come from?	
Asia Africa	Europe
Oceania North Amer	ica 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 vis	iting whilst 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 5 for C	uestion 8
---------------	-----------

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

# Answers to Questions 2, 3 and 4 of tourist questionnaire

# Fig. 16 for Question 8

8

# 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	(Finish interview if 'No')		
<ol><li>What do you think are the main positive impacts of tourism in Chiang Mai? Number your first and second choices '1' and '2'.</li></ol>			
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 '			
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	r 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 6 for Question 8

9

### 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

12

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.

© UCLES 2011