

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

GEOGRAPHY 2217/21

Paper 2 May/June 2011

INSERT

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.

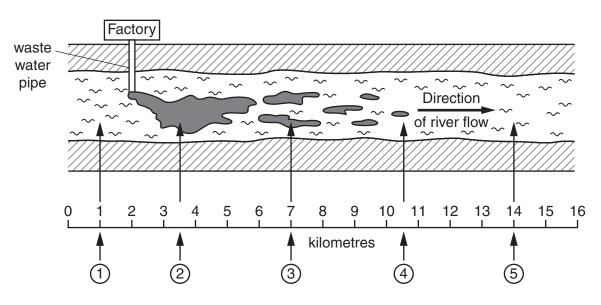


Photograph A for Question 3



Fig. 11 for Question 7

Results of study into pollution of the river



Key

- 1 Testing site for Hypothesis 2
- Visible pollutants

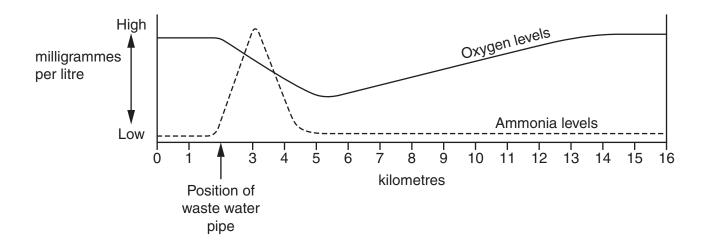


Fig. 12 for Question 7

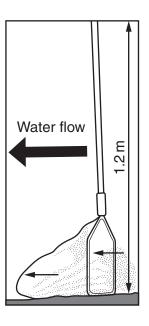
Pollution investigation using indicator species

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

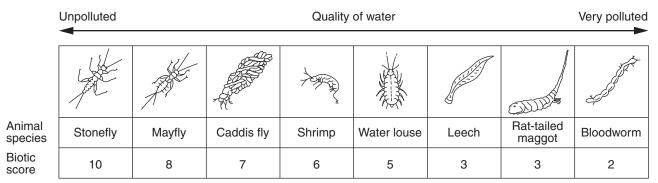


Fig. 14 for Question 8

Tourist questionnaire

We are doing a tourism survey as part of our Geography coursework. Please will you answer the following questions?						
1. Which co	ntinent do you come	e from?				
As	sia		Africa			Europe
	ceania		North Ame	erica		South America
2. What are the main physical attractions you are visiting whilst in Chiang Mai?						
Mo	ae Klang waterfall				Doi Inthanon M	ountain
Fa	ing Hot Springs				Botanical Garde	ns
Ele	ephant camp				Orchid and Butt	terfly farms
Ot	o Luang Gorge					
3. What are the main human attractions you are visiting whilst in Chiang Mai?						
☐ Hi	ll tribe villages				National museur	n
Sł	nopping at the night	bazaar	1		Buddhist temple	es
Bh	nubing Palace				Muang Kung Ear	thenware village
Ro	yal pagodas					
4. Overall which attracted you most to Chiang Mai?						
Ph	ysical attractions				Human attraction	ons
Thank you fo	or your time.					

Table 5 for Question 8 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. 16 for Question 8

Local people questionnaire

We are doing the following o	a tourism survey as part of our Geog questions?	raphy o	coursework. Please will you answer		
1. Do you live	in Chiang Mai?				
У	'es				
	10	(Finish 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	e jobs and income		Improved standard of living		
More	e modern services		Cleaner environment		
Imp	roved infrastructure e.g. airport, roo	ıds			
Redu	uction in crime		Greater range of goods in shops		
Loca	ıl people have greater global awarene	SS			
3. What do you think are the main negative impacts of tourism in Chiang Mai? Number your first and second choices '1' and '2'.					
Nois	se pollution		Air pollution		
Traf	fic congestion		Increase in crime		
Decl	Decline of traditional culture and way of life				
Incr	rease in litter		Increase in cost of living		
Dest	Destruction of natural environment for hotels, shops etc.				
4. Overall do y	ou think tourism has a positive or ne	gative	impact in Chiang Mai?		
Posi	tive				
Nego	ative				
Thank you for	your time.				

Table 6 for Question 8

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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