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#### UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

# MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

## 0460 GEOGRAPHY

0460/05

Paper 5 (Computer Based alternative to Coursework), maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2	Mark Scheme: Teachers' version	Syllabus	ľ			
		IGCSE – May/June 2010	0460				
1	Page 2 Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2010 0460  Primary industry = A (Extracting raw materials) Another example of primary = D (Farming). 1 mark per correct answer						
2	Labour = Input (A); Cutting rock = Processes (B); Outputs = Input (A)  1 mark per correct answer						
3	Albus quarry – 532645 (B); distance between Albus and Bora quarry = 6.1km (C) 1 mark per correct answer						
4.1	<ul> <li>Cement works is near to quarries because:         The rock/stone is heavy/bulky to transport; because rock/stone is expensive to transport.         (Not quick/easy)         1 mark per correct answer (max 2)     </li> </ul>						
4.2	<ul> <li>Cement works is away from housing because of:</li> <li>Dust (from lorries); noise (from lorries); the cement works is an eyesore; more traffic.</li> <li>(Answers do not need to be qualified)</li> <li>1 mark per correct answer (max 2)</li> </ul>						
5.1	Wear a hard	hat		[1]			
5.2		otection/protectors/defenders/cover ears/ear plugs. Thones but not earpieces)		[1]			
6		ce (E); B = mining tunnels (D); C = waste rock (F); Correct answer	O = cut blocks of stone (A)	[4] [C]			
7	Area of quarr	/ ben air (A); Noise – Noise from blasting (B); Distance ry – 0.65km² (B); Distance from main road – 1.5km ( orrect answer		[5] [C]			
8		dent (C); Date and time (B) orrect answer		[2] [C]			
9.1	–12 (must ha	ave 'minus' – sign or word)		[1]			
9.2	9.2 –4 (must have 'minus' – sign or word) [1]						

1 mark per correct bar/answer BUT allow marks if bars match incorrect answers for 9.1 and 9.2

**10** Bar 0 = -12; Bar 1 = -4

[2]

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Page 3		Ma	ark Scheme: Tea IGCSE – May/			Syllabu 0460	s Pag	
			IGCGL - Mayn	Julie 2010		0400		oca,
11.1	В						`	Marie
11.2	A (1 m	ark if both	correct)					36.
11.3	В							
11.4	B (1 m	ark if both	correct)					[1]
11.5	1							
11.6	3 (1 m	ark if both	correct)					[1]
11.7	4							
11.8	2 (1 m	ark if both	correct)					[1]
12.1	Against:	1 for: 1	(1 mark if both o	corroct)				[1]
12.1	Against:		(1 mark if both o	,				[1]
12.2	Against. B	2, 101. 3	(Tillark ii botii c	orrect)				
12.3	Б							[1]
13.1	•		ney for the eco Do not allow jobs	nomy/brings incor or transport)	me/imp	oroves eco	nomy/produ	iced local [1]
13.2	Against: destroye		fic on roads/qua	arry is ugly/an ey	yesore	/habitats de	estroyed/en	vironment [1]
14.1	Reasons rock/usir landscap and 4 p	s: allow 1 ng explosiones/bare ro	ves; many lorrie ock scars (–2); a lo e 'against' it; it h	for any negative s taking the crus ot of dust generate nad a high enviro	shed ed (–3)	rock or sto ); only 1 per	one away son is 'for'	(–3); ugly the quarry
	Reserve	1 mark for	data (data can b	e number of peopl noise (noise from		Q score).		[4]
14.2	Allow 1 r It makes they do i ground s	less noise not use bla surface); is	orrect explanation (because they dasting methods); smaller (0.25km	(up to 2 marks) so not use blasting was less visible (begin as opposed to 0 lity score of -4. Ca	metho becaus 0.65km	ods); it make e it uses tu n²); it had a	nnels/quarr	y is below

Allow 1 mark per valid suggestion explained such as:

do not live near to the quarry (to get a balanced view).

Interview more people (5 are not enough); conduct a questionnaire (in order to ask

specific questions); ask a variety of people regarding age/gender/employees (to ensure the sample interviewed is not biased); use equipment to measure noise (to get specific

readings); use equipment to measure dust (to get specific readings); interview people who

[1]

[1]

[1]

15.1

15.2

15.3

Page 4 Mark Scheme: Teachers' version Syllabus			· · · ·	^
	Page 4	Mark Scheme: Teachers' version	Syllabus V	3
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**16** D (Using resources carefully without damaging the environment) 1 mark for correct answer

17 Allow positive and negative effects such as:

<u>A caravan site</u> would: provide jobs for local people; it would generate more income/money for the area; more customers in local shops and pubs (money needs to be qualified); more rubbish; more noise from people; more traffic congestion. (Not just 'more tourism').

<u>A recreational area</u> (e.g. motorbikes) would: provide somewhere for leisure activities – especially for young people; may provide income; may be noisy; may cause more litter; more soil erosion.

A nature reserve would: improve the visual impact; create habitats for wildlife; may provide income; would be quieter; less dust/dirt.

Allow 1 mark per effect area [3]

## **18.1** Fair and valid interview by:

Using systematic/random/stratified sampling methods; making sure that the sample had the same number of males/females; making sure that the sample had the same number of people from different age groups; by asking a suitably large sample – such as 50.

1 mark per way given (allow 1 mark max. for naming a sampling method) [2]

number of cars: stand at the main gate and do a tally of the cars entering the theme park; (not just counting cars – must say where/how)

<u>number of visitors:</u> stand at the turnstile/payment kiosk and count the number of visitors (or interview the owner/manager to find out the number of tickets sold); (not just counting visitors – must say where/how)

origin of visitors: interview visitors to find out where they are from; survey number plates.

Allow 1 mark per valid way (max. 1 mark per option) [3]

## **19** Agree/support hypothesis (1 mark).

Allow 1 mark per valid benefit given – reserve 1 mark for each category (environmental, social and economic) such as:

Former quarries (when used for recreational activities such as sailing/water sports/caravan sites/nature reserves) can improve the area.

<u>Environmentally</u> – caravans are screened by the quarry and make less noise/less air pollution than quarries; a nature reserve will protect the environment and attract wildlife back to the area <u>Socially</u> – a tourist attraction will provide a meeting point/entertainment for local people (e.g. motorbike trail)

Economically – caravan sites/tourist attractions may bring jobs and money/income to the area. [4]