#### 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.

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	Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0460	05
1	Another exan	stry = A (Extracting raw materials)  nple of primary = D (Farming).  orrect answer		[2] [C]
2		ut (A); Cutting rock = Processes (B); Outputs = Inpu prrect answer	ut (A)	[3] [C]
3		– 532645 (B); distance between Albus and Bora quorrect answer	uarry = 6.1km (C)	[2] [C]
4.1	The rock/stor (Not quick/ea	ss is near to quarries because: ne is heavy/bulky to transport; because rock/stone is sy) orrect answer (max 2)	s expensive to trai	nsport. [2]
4.2	Dust (from lo	is is away from housing because of: rries); noise (from lorries); the cement works is an e not need to be qualified) prrect answer (max 2)	eyesore; more traff	fic. [2]
5.1	Wear a hard	hat		[1]
5.2	•	tection/protectors/defenders/cover ears/ear plugs. hones but not earpieces)		[1]
6		ce (E); B = mining tunnels (D); C = waste rock (F); I orrect answer	D = cut blocks of s	stone (A) [4] [C]
7	Area of quarr	en air (A); Noise – Noise from blasting (B); Distance y – 0.65km² (B); Distance from main road – 1.5km orrect answer		I70m (B); [5] [C]
8		lent (C); Date and time (B) prrect answer		[2] [C]
9.1	–12 (must ha	ve 'minus' – sign or word)		[1]
	·	e 'minus' – sign or word)		[1]
10	Bar 0 = -12; 1 mark per co	Bar 1 = –4 orrect bar/answer BUT allow marks if bars match inc	correct answers fo	[2] or 9.1 and 9.2

Page 3		3					Syllabus	ıs Paper		
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11.1	]	В								
11.2	2	Α	(1 m	ark if both	correct)					[1]
11.3	3	В								
11.4	ŀ	В	(1 m	ark if both	correct)					[1]
11.5	5	1								
11.6	6	3	(1 m	ark if both	correct)					[1]
11.7	•	4								
11.8	3	2	(1 m	ark if both	correct)					[1]
12.1		Ag	ainst:	4, for: 1	(1 mark i	f both corre	ct)			[1]
12.2	2	Ag	ainst:	2, for: 3	(1 mark i	f both corre	ct)			[1]
12.3	3	В								[1]
13.1	l	For: produces money for the economy/brings income/improves economy/produced local building materials (Do not allow jobs or transport) [1]								
13.2	2	Against: more traffic on roads/quarry is ugly/an eyesore/habitats destroyed/environment destroyed. [1]								
14.1	I	Agree (or partly agree) [1 mark res.] Reasons: allow 1 mark (up to 2) for any negative impacts such as: noise from blasting rock/using explosives; many lorries taking the crushed rock or stone away (–3); ugly landscapes/bare rock scars (–2); a lot of dust generated (–3); only 1 person is 'for' the quarry and 4 people were 'against' it; it had a high environmental impact or low environmental quality score (–12).  Reserve 1 mark for data (data can be number of people or EQ score).  Qualification not needed apart from noise (noise from)								
14.2	2	Allo It n the gro	ow 1 r nakes y do i ound s	less nois not use bl surface); i	correct expl e (because asting metl s smaller (	they do not nods); was l 0.25km² as	ess visible (be	methods ecause i .65km²);	t uses tunnels it had a lowe	ss dust (because s/quarry is below er environmental [3]
15.1 15.2 15.3	2	Inte spe the rea	erview ecific o samp dings	more per questions ple intervie ); use equ	ople (5 are o; ask a var ewed is not dipment to r	not enough lety of peop biased); us neasure du	ned such as: ); conduct a quele regarding age equipment to st (to get specilanced view).	ge/gendo o measu	er/employees re noise (to ge	(to ensure et specific [1]

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16 D (Using resources carefully without damaging the environment)

1 mark for correct answer

[1] [C]

#### **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]