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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	r
-	IGCSE – May/June 2010 0460	20
Another exan	stry = A (Extracting raw materials) mple of primary = D (Farming). orrect answer	an Cambridge [3]
	ut (A); Cutting rock = Processes (B); Outputs = Input (A) orrect answer	[3] [C]
	r – 532645 (B); distance between Albus and Bora quarry = 6.1km (C) orrect answer	[2] [C]
The rock/stor (Not quick/ea	ks is near to quarries because: ne is heavy/bulky to transport; because rock/stone is expensive to transport asy) orrect answer (max 2)	t. [2]
Dust (from lor (Answers do	ks is away from housing because of: prries); noise (from lorries); the cement works is an eyesore; more traffic. not need to be qualified) orrect answer (max 2)	[2]
Wear a hard	hat	[1]
	otection/protectors/defenders/cover ears/ear plugs. phones but not earpieces)	[1]
• •	ice (E); B = mining tunnels (D); C = waste rock (F); D = cut blocks of stone (orrect answer	(A) [4] [C]
Area of quarr	/ ben air (A); Noise – Noise from blasting (B); Distance from housing – 170m (ry – 0.65km² (B); Distance from main road – 1.5km (A) orrect answer	(B); [5] [C]
	dent (C); Date and time (B) orrect answer	[2] [C]
–12 (must ha	ave 'minus' – sign or word)	[1]
–4 (must hav	ve 'minus' – sign or word)	[1]
Bar 0 = –12; 1 mark per co	Bar 1 = –4 orrect bar/answer BUT allow marks if bars match incorrect answers for 9.1 a	[2] and 9.2

Pa	ge 3	Mark Scheme: Teachers' version	Syllabus Syllabus
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			an
11.1	В		9
11.2	A (1	mark if both correct)	Syllabus 0460 0460
11.3	В		
1.4	B (1	mark if both correct)	[
1.5	1		
11.6	3 (1	mark if both correct)	[
1.7	4		
11.8	2 (1	mark if both correct)	[
12.1	Again	st: 4, for: 1 (1 mark if both correct)	[
2.2	Again	st: 2, for: 3 (1 mark if both correct)	[
2.3	В		[

- 13.1
 For: produces money for the economy/brings income/improves economy/produced local building materials (Do not allow jobs or transport)
 [1]
- **13.2** Against: more traffic on roads/quarry is ugly/an eyesore/habitats destroyed/environment destroyed. [1]
- **14.1** 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).

[4]

Reserve 1 mark for data (data can be number of people or EQ score). Qualification not needed apart from noise (noise from ...)

14.2 Less impact [1 mark]

Allow 1 mark per correct explanation (up to 2 marks) such as:

It makes less noise (because they do not use blasting methods); it makes less dust (because they do not use blasting methods); was less visible (because it uses tunnels/quarry is below ground surface); is smaller (0.25km² as opposed to 0.65km²); it had a lower environmental impact or higher environmental quality score of –4. Can credit data. [3]

- **15.1** Allow 1 mark per valid suggestion *explained* such as:
- Interview more people (5 are not enough); conduct a questionnaire (in order to ask [1]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 [1]15.3 readings); use equipment to measure dust (to get specific readings); interview people who
 - do not live near to the quarry (to get a balanced view). [1]

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- **16** D (Using resources carefully without damaging the environment) 1 mark for correct answer
- Cambridge.com **17** Allow positive and negative effects such as: A caravan site 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'). A recreational area (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]

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- 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]
- 18.2 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) number of visitors: 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.

Environmentally – 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 Socially - 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]