UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

0460 GEOGRAPHY

0460/04

Paper 4 (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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Page 2		2	Mark Scheme	Syllabu	is P er		
				IGCSE – May/June 2008	0460	20	
1	(a)	 a) (i) Wind would change temperature; easy to see effects/influence of building/ground surface; varies due to windy/storm conditions; shelter influence – no credit for ref. to time of year/month. Credit influence of rain/damp if refers to influencing Relative Humidity; not just lists of different weather events. 		n.	2 @ 1 mail	bride	
		(ii)	heat temp build walls sites	ember so heating on in buildings; passes through building/windows/walls/roof to increperature outside; lings retain heat during the day and reradiate at nights facing S/SW are heated by sun in November; further away will be less affected; lings bring shelter/block sunlight.		2 @ 1 mark	[2]
	(b)	(i)	no tr on g	y from buildings – so no influence; ees close by to shade; rass not concrete – so not alter temperature/absorb ks are for two reasons only; not locations.	s heat.	2 @ 1 mark	[2]
		(ii)	min. pres	temperature 12-13°C inclusive; temperature 1/2°C inclusive; ent temperature 3/3.2°C inclusive. es completed with correct temperature ranges.		3 @ 1 mark	[3]
	(c)	(i)	diffe stud read	dvantage e.g. unsure if same location; rent heights of waist; ent error in timing, 30 seconds may not be enough f ing; 3 days may not be long enough for reliable figu ct of body heat on reading etc.		1 @ 1 mark	[1]
		(ii)	diffe refer	perature will change during the day; rent temperatures to check; rence to an average/range for the day. e accurate' = 0		1 @ 1 mark	[1]
	(d)	sim mor Allo nee ess	ilar to rnings w inc ed for ential	Id morning but warm afternoon but day 2 colder and day 2; always colder than afternoons. rease/decrease (+ goes up/down); can refer to figur C. Must refer to another day to get third mark. Data – if given 1 max. Can credit similarity (not a change e.g. Day 2 am and day 3 am same.	es – no not	3 x 1 descriptive points covering 2 days. Data 1 max. One day only 2 max.	[3]

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Syllabus

			IGCSE – May/June 2008	0460	Ap.	
(e)	(i)	F: 5.2 at 17m, G: 5.4 at 9m, H: 5.8 at 2m. No marks if letters missing but allow if 2/3 letters given.			3 @ 1 mark	bride
	(ii)	Strai	of best fit within tolerance – RHS 4.6/5.3 to LHS 5.4 ight or curved; joining plots.	1 @ 1 mark	[1]	
	(iii)	temp no c Crec idea	the sites closest to the buildings have warmer average or the furthest site has the lowest temperedit for opposites. Solit data e.g. with distance (metres) temperature (C) is need to refer to the map, if do credit to 1 max.	erature –	1 for trend 1 for data 1 other.	[3]
(f)	WO Site Cre	tes with plants = A + B + F = 75 + 77 + 73 = 225/3 = 75%. IGNORE ORKING. tes without plants = C + D + E + G + H = 76 + 75 + 73 + 75 + 7 = 376/5 = 75.2% but accept 75.25%. edit "No" or negative statement. Credit "Yes"/positive statement if rrect judgement using wrong figures.			1 for totals. 1 for correct decision based on figures.	[2]
(g)	(i)	higher temperature than A/D but can give reasons for why temperature higher – windier further away/heated from inside. Hypothesis 2 – To some extent/No (1); Reason e.g. little difference/almost same between vegetated/non vegetated sites.		hy nside. e	2 @ (1 + 1) marks	[4]
	(ii)	only shou stud- mea Cred	only three days; twice each day; uld be at other times of the year; ent error in measuring; sure at waist height. dit practical ideas to improve investigation. ect three negative, allow one positive.		3 @ 1 mark credit development 1 max. for + ve.	[3]

Mark Scheme

Page 3

between bars.

Page 4		Ļ	Mark Scheme	is er			
			IGCSE – May/June 2008	0460	100		
2	(a)	 (i) E.g. data collected by oneself/ourselves/the students completing the investigation; not collected by others/first-hand. No mark for an example. 		empleting	1 mark	bride	
		(ii)	surv	questionnaire/traffic or pedestrian count/interview/; eys; sketches; their own photographs. d TWO examples.	bi-polar	1 mark for two examples	[1]
	(b)	(i)	no v train data %ag E.g. mou lugg	t visitors come by car; isitors come by bicycle; and bus is the least favourite method given; range cars 69/73%, bus/coach 19/23, train bus 6/1 le counts. Tourists have flexibility to move around as they wis ntains make it inaccessible for other transport; age; arking problems.		3 @ 1 mark 1 mark for description. 1 mark for reason. 1 other e.g. data or description or reason	[3]
		(ii)	face	nplete pictograph with three symbols in "Very difficul s) and one symbol in "A little difficult" (medium face ressions do not matter.		1 mark each category.	[2]
	(c)	(i)	is sp the d impa less Acco jobs cam issue	demand for services increase; act on environment e.g. more noise pollution; impact if short-stay. ommodation - e.g. If staying in hotels then greater n		3 @1 mark (2 + 1) Reserve mark for each question. Credit development	[3]
	(d)	Cor	- A - S - C	construction of bar graph. xis labels of frequency and reasons or listed separa equence of figures on vertical axis in correct order/r orrect plotting of numbers – 1 st 3 correct (1) 2 out of orrect. (1)	ange. (1)	No marks for shading. Can be horizontal or vertical and with gaps	[4]

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[3]

[5]

Page 5	Mark Scheme	Syllabus
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(e) (i) AGE - No - not equal numbers from each age group/more 20 - 40 years/people over 40 are under-represented; GENDER - Yes - male/female are fairly equal numbers; No - if qualify with statistics e.g. 43/37.

2 @ 1 mark (1 + 1)

(ii) Time of year – e.g. in winter more visitors skiing; fewer visitors, if any, camping in winter. Time of day – e.g. non-working people may visit in day; those on holidays in day; workers in evenings especially summer; school parties during day. No credit for references to daylight and darkness.

3 @ 1 mark Credit development. Can be both – ignore <u>or</u> in question.

(f) Decision about hypothesis/yes/I agree/almost agree; Evidence using data Q1 e.g. 66% have tourism related jobs; 83% improved facilities; Lack of problems (40%); some problems (under 22%) Q2 e.g. 42% tourists stay in hotels/hostels so bringing income to owners. Marks for positive evidence supporting hypothesis. No credit for

negative statements.

1 for decision [6] on hypothesis.
2 for data (max)
3 for relevant statements.
Max. 5 if only ref. to 1 Q.

(g) Credit detail of equipment, instrument, recording sheet, practical details of time of day, duration of survey etc. If questionnaire suggested, it must be for something relevant and not already asked. E.g. Environmental survey; devise scoring system; observe a variety of sites; score litter/noise/traffic; record. 5 @ 1 mark Credit development. Max 3 marks on one method.

Secondary data use must be qualified e.g. could research previous records of noise pollution.