MARK SCHEME for the October/November 2012 series

0460 GEOGRAPHY

0460/43

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, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		2	Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0460	43	
1	(a) (i)	Clea Clea On g	r of buildings / away from shelter / open ground r of trees / away from interception r of people or animals / away from interference grass not concrete / non-splash surface lat land		2 @ 1	[2]
	(ii)	Container stood firmly in ground / above ground / on ground Rainfall / water collects in measuring cylinder / rains into cylinder Read water level in measuring cylinder / read at eye level / read off the scale / read of the gauge Reading taken at same time every day / specific time period Empty water out of container				d off
		Add	any water collected in overflow cylinder			[3]
	(iii)		he top of a building y from obstruction / exposed to wind		2@1	[2]
	(iv)	The	w turns / spins in the wind arrow points the direction the wind is coming from letters show direction / reference to compass direct	ion		[3]
	(b) (i)	4.8 (mm)			[1]
	(ii)	Primary data: using a barometer & measuring the speed of river flow Secondary data: researching on the internet & reading a newspaper report 4 correct = 2 marks, 2 or 3 correct = 1 mark, 1 correct = 0			t	[2]
	(iii)	Measurements made at same time of day No measurements are missing / all the days / everyday Measurements done with accurate or advanced instruments / recorded automatically by computer Experienced or professional people / student error Answer could focus on weaknesses of student measuring 2 @ 1				ly or [2]
	(iv)	Plot	2mm at coastguard station at day 2			[1]
	(v)	Aver	age rainfall is higher at coastguard station / lower a	t school		
		e.g. e.g. e.g.	ed data for 2 marks average daily rainfall 4.8 mm at school, 6.1 mm at c days with 8 mm rainfall or more (2/10 at school, 6/1 up to 15 mm on one day at CG station, up to 12 mn lypothesis mark	6 at coastguard sta	,	[3]

Page	3	Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2012	0460	43	
(c) (i)) Plot	wind bars: SW = 4		[1]	
(ii)	1 ma	rainfall bar: 1 mark for scales (up to 5mm & 15 th); ark for bar = 4 mm;			
	1 ma	ark for position in SE quadrant		[3]	
(iii)	 (iii) School: Hypothesis is not true / incorrect – 1 mark reserve More rain on days when wind is from N/NW If answer is Hypothesis is true / partially true = 0 Rainfall is more than 5mm when wind is from N/NW & rainfall is 5mm or below w wind is from S/SW There is more total rainfall when the wind is from N/NW (26 mm) than when the win from S/SW (20 mm) 				
	wind If an Rain wind Thei	stguard station: hypothesis is true / correct /more ra l is from S/SW – 1 mark reserve swer is Hypothesis is not true / partially true = 0 afall is more than 5mm when wind is from S/SW & l is from N/NW / NE / SE re is more total rainfall when the wind is from S/SW o N/NW /NE / SE (22 mm)	& rainfall is 5mm		
	1 ma	ark for each hypothesis; 2 marks for supporting evid	ence	[4]	
M M So	lore raii lore wir chool is	o of wind varies from day to day n when winds blow from the sea nds from sea / south affect coastguard station s sheltered from winds off the sea or from south by h	nills / rainshadow		
	-	ets more rain when winds are from north ard station is sheltered from north winds by hills / ra	inshadow		
	G statio	naximum for comparative location such as: on is nearer sea or CG station on coast & school inla	and	101	

CG station is at sea level & school is 200m above SL or school is higher

[3]

[Total: 30]

	Page 4		Mark Scheme	Syllabus	Paper	
			IGCSE – October/November 2012	0460	43	
2	(a) (i)	Lang Cust Ask Ask	k at what was for sale in the shops guage of shop signs / products tomers' language / survey / questionnaire shop owners / survey / questionnaire customers earance e.g. dress		3 @ 1	[3]
	(ii)	To test methodology / find out if any problems / check sample size Opportunity to change methodology / make improvements Gain confidence in doing fieldwork / practice / gain experience 2 @ 1				[2]
	(iii)	Draw divided bar to show nine tourist & six local shops 1 mark for dividing line, 1 mark for shading				
		If numbers are 'wrong way round' credit correct shading				[2]
	(iv)	11 1 ma	100 = 27.3% (27.27) ark for calculation, 1 mark for answer need for percentage			[2]
	(v)	site site site	k order: site 6 = rank 2 7 = rank 4 8 = rank 5 9 = rank 3 10 = rank 11			
	(b) (i)	Tota	Il environmental score = 14			[1]
	(ii)	-	jective / biased judgements /Surveys done by differe vey will be done at different times / different days	ent people get diffe	rent results 2 @ 1	8
	(iii)		sites 4 (tourist shops = 50%, environmental score = 7 (tourist shops = 66.7%, environmental score = 23		2 @ 1	[2]
	(iv)		best fit line on scatter graph (curved or straight) tive with 3 plots clear of line on each side			[1]
	(v)	and As p	oh shows a positive correlation / relationship betw environmental score percentage of tourist shops increases so does enviro Hypothesis mark		f tourist sh	nops [1]
	(vi)	mair Poor	ronment of an area is improved to attract more tour ntain level of tourism or examples of how area is kep r environment will put off tourists / prevent them con rist industry income can be used to improve environ	ot clean ning		[2]

Page 5	6	Mark Scheme	Syllabus	Paper	
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(c) (i)	Methodology such as: one person every two minutes / every tenth person / male – female – male / ask people at equal intervals [1]				
(ii)	Com	plete pie graph – division and shading for 1 mark		[1]	
(iii)		nplete tally chart – all correct = 2 marks 4 correct = 1 mark		[2]	
(iv)	 (iv) Hypothesis is true / correct / partially true / tourism does have a positive economic of - 1 mark reserve If answer Hypothesis is not true = 0 At 8/10 / most / majority sites more than 50% / most / majority answered Ye question 2) Exceptions are sites 1 & 2 At two sites / at site 6 / at site 10 all residents answered Yes (to question 2) Credit effects from Fig. 12 with supporting data (number or site) to 1 mark maximum e.g. Most sites have more than 5 tallies for job opportunities 				
Job Job Car	s une s suc s are n buy	te 10 15/20 said more job opportunities employment th as guides, vendors, hotel staff, security staff / job reliable & give local people more income / earn mo necessities / luxuries or examples for education / health care / electricity / water supple	oney	[4] otels, shops [3]	

[Total: 30]