CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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.

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Page 2		Mark Scheme	Syllabus	0	
raye z		IGCSE – October/November 2012	0460	80	
(a) (i)	Clea Clea On g	ar of buildings / away from shelter / open ground ar of trees / away from interception ar of people or animals / away from interference grass not concrete / non-splash surface lat land	0.00	Papacan,	Bridge [2]
(ii)	Rain Read the g Read Emp	tainer stood firmly in ground / above ground / on ground / water collects in measuring cylinder / rains into d water level in measuring cylinder / read at eye legauge ding taken at same time every day / specific time perty water out of container any water collected in overflow cylinder	o cylinder evel / read off the so	cale / read	d off [3]
(iii)	On the top of a building			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)	Seco	nary data: using a barometer & measuring the speed ondary data: researching on the internet & reading rrect = 2 marks, 2 or 3 correct = 1 mark, 1 correct =	a newspaper report		[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 of by computer Experienced or professional people / student error Answer could focus on weaknesses of student measuring 2 @ 1 [2]			ly or [2]	
(iv)	Plot	2mm at coastguard station at day 2			[1]
(v)		rage rainfall is higher at coastguard station / lower a	t school		
(*)	Paire e.g. e.g. e.g.	ed data for 2 marks average daily rainfall 4.8 mm at school, 6.1 mm at of 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 mm Hypothesis mark	coastguard station 6 at coastguard stat	,	[3]

1

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(c) (i) Plot wind bars: SW = 4

(ii) Plot rainfall bar: 1 mark for scales (up to 5mm & 15th);

1 mark for bar = 4 mm;

1 mark for position in SE quadrant

(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 when wind is from S/SW

There is more total rainfall when the wind is from N/NW (26 mm) than when the wind is from S/SW (20 mm)

Coastguard station: hypothesis is true / correct /more rain on days when

wind is from S/SW - 1 mark reserve

If answer is Hypothesis is not true / partially true = 0

Rainfall is more than 5mm when wind is from S/SW & rainfall is 5mm or below when wind is from N/NW / NE / SE

There is more total rainfall when the wind is from S/SW (76 mm) than when the wind is from N/NW /NE / SE (22 mm)

1 mark for each hypothesis; 2 marks for supporting evidence

[4]

(d) Direction of wind varies from day to day

More rain when winds blow from the sea

More winds from sea / south affect coastguard station

School is sheltered from winds off the sea or from south by hills / rainshadow

School gets more rain when winds are from north

Coastguard station is sheltered from north winds by hills / rainshadow

1 mark maximum for comparative location such as:

CG station is nearer sea or CG station on coast & school inland

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

[3]

[Total: 30]

Page 4		1	Mark Scheme Syllabus				
1 age 4		<u> </u>	IGCSE – October/November 2012	0460	80		
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		ABBACAM 3 @ 1	bridg [3]	
	(ii)	Opp	est methodology / find out if any problems / check sa portunity to change methodology / make improvemen in confidence in doing fieldwork / practice / gain expe	ts	2 @ 1	[2]	
	(iii)	Draw divided bar to show nine tourist & six local shops 1 mark for dividing line, 1 mark for shading					
		If nu	umbers 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	ok order: site 6 = rank 2 7 = rank 4 8 = rank 5 9 = rank 3 10 = rank 11				
	(b) (i)	Tota	al environmental score = 14			[1]	
	(ii)		jective / biased judgements /Surveys done by differe vey will be done at different times / different days	ent people get differ	ent result 2 @ 1	S	
	(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) itive with 3 plots clear of line on each side			[1]	
	(v)	and As p	ph shows a positive correlation / relationship betwo environmental score percentage of tourist shops increases so does enviro Hypothesis mark		tourist sh	nops	
	(vi)	mair Poo	ironment of an area is improved to attract more tourish ntain level of tourism or examples of how area is kep or environment will put off tourists / prevent them com rist industry income can be used to improve environ	t clean iing		[2]	

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- (c) (i) Methodology such as: one person every two minutes / every tenth person female male / ask people at equal intervals
 - (ii) Complete pie graph division and shading for 1 mark
 - (iii) Complete tally chart all correct = 2 marks 3 or 4 correct = 1 mark

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(iv) Hypothesis is true / correct / partially true / tourism does have a positive economic effect – 1 mark reserve

If answer Hypothesis is not true = 0

At 8/10 / most / majority sites more than 50% / most / majority answered Yes (to 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 At site 10 15/20 said more job opportunities

[4]

(d) Less unemployment

Jobs such as guides, vendors, hotel staff, security staff / job opportunities in hotels, shops Jobs are reliable & give local people more income / earn money

Can buy necessities / luxuries or examples

Can pay for education / health care / electricity / water supply / electricity

[Total: 30]

[3]