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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.



Page 2		Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2012	0460	43	
(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		2 @ 1	[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 s	scale / rea	d off
(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)	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 repor	t	[2]
(iii)	No n Mea by co Expe	surements made at same time of day neasurements are missing / all the days / everyday surements done with accurate or advanced instrur omputer erienced or professional people / student error wer could focus on weaknesses of student measurin		utomatical 2 @ 1	ly or [2]
(iv)	Plot	2mm at coastguard station at day 2			[1]
(v)	Aver	rage 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 o 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 Hypothesis mark	6 at coastguard sta	,	[3]

1

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

[1]

(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

[3]

(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]

			IGCSE – October/November 2012	0460	43	
2	(a) (i)	Lang Cust Ask Ask	c 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)	Орр	est methodology / find out if any problems / check so ortunity to change methodology / make improvemen or confidence in doing fieldwork / practice / gain expe	nts	2 @ 1	[2]
	(iii)		v divided bar to show nine tourist & six local shops ark for dividing line, 1 mark for shading			
		lf nu	mbers 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	l environmental score = 14			[1]
	(ii)		ective / biased judgements /Surveys done by differe yey will be done at different times / different days	ent people get differ	ent results 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) tive with 3 plots clear of line on each side			[1]
	(v)	and As p	oh shows a positive correlation / relationship between vironmental score recentage of tourist shops increases so does environly by the sis mark		tourist sh	nops [1]
	(vi)	mair Poo	ronment of an area is improved to attract more tour ntain level of tourism or examples of how area is kep or environment will put off tourists / prevent them contrist industry income can be used to improve environ	ot clean ning		[2]

Mark Scheme

Syllabus

Paper

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Page 5	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) Complete pie graph – division and shading for 1 mark

[1]

(iii) Complete tally chart – all correct = 2 marks 3 or 4 correct = 1 mark

[2]

(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

[3]

[Total: 30]