MARK SCHEME for the May/June 2013 series

0460 GEOGRAPHY

0460/42

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 May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2			Mark Scheme	Syllabus	Paper	
			IGCSE – May/June 2013	0460	42	
(a)) (i) (ii)		,10,11,12 (October) or 9–12th; dates can be in any order. Rain gauge			[1 [1
		Rain Rain Rive Rive Inter	<u>imples – look for two causes of time lags</u> n does not fall directly into river (1) nwater needs time to drain into the river (1) er level continues to rise after the rain stops/during rai er is not full/at bankfull discharge (1) rception by trees/vegetation (1) n stored in rocks/soil (1)	infall (1)	[1 + 1]	[2
(b)) (i)	Seco	condary		[]	[
	(ii)	More Build By-p Raily Less Park	imples (Can compare either way between years) re built-up / urban area is larger (1) dings constructed near river / on floodplain (1) pass / road constructed (1) way lines do not continue/destroyed/cut off (1) s woodland area (1) kland in different places (1) er route different (1)		[1 + 1]	[;
(c)) (i)	Ope Flat Chea	imples en space/expansion for buildings (1) land (1) eap land (1) ter for transport/cooling/manufacturing/power (1 max t	for water)	[1 + 1]	[
	(ii)	Resi Man Man	<u>mples: must be a comparison</u> idential buildings are east/NE but manufacturing are v nufacturing buildings are more/further downstream tha nufacturing buildings are <u>nearer</u> the river/residential an h are on same side/north of river (1)	an residential (1)		[]
	(iii)	1 ma	<u>npletion of pie graph</u> – manufacturing (12%) and publ ark for correct line; must be <u>within 5%</u> of vertical (sho ark for correct shading using the key.		[1 + 1]	[

	3	Mark Scheme	Syllabus	Paper	
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(iv)	Mos Only	othesis is false / incorrect / not true t / majority / mainly/ over half /55%/ 73/133 of 16 out of 133/ 12% buildings are for manufa e buildings are for residential / office use than	cturing (1)		61
(d) (i)	1 ma	<u>pletion of divided bar graph</u> ark for correct line at 15 from either direction (ark for YES/NO in bars or appropriate key is o		[1HA + 2] [1 + 1]	[3 [2
(ii)		n <u>pletion of bar graph</u> ark for plot at 64; no credit for shading.			[1
(iii)	Mos All o Mos or 89	nples: Can give reverse for credit (NB NO H) t or 95/110 or 86% had no warning (1) OR or r 100% or 110/110 businesses had increase t or 101/110 or 92% businesses were affecte % were not affected by loss of customers (1) t or 99/110 or 90% businesses had repair cos	nly 15/110 or 14% had in insurance costs (1) d by loss of customers	,	10
	Crec	lit data to 1 mark max but not a reserve mark		[1 + 1 + 1]	[;
	0100			[1 . 1 . 1]	
Fer Wa Car Fla	ample tile so iter <u>for</u> n use t land	<u>s of Opportunities:</u> pil/good <u>for</u> farming (1) ririgation /crops/drinking/bathing etc (1 max river <u>for</u> transport (1) <u>for</u> building roads / railways (1) cource of fish for food (1)		[, , , , , ,]	

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(f)	Increase size / depth of river channel (1) Afforestation in catchment area (1) Construct a dam / creates a reservoir (1) Build embankments / levees / walls / barriers (1) Straighten river course / remove meanders (1) Dig a flood relief channel / divert river (1) Dredging river / removing debris (1) Build a drainage system/ditches (1) Dyke (1)			[1	[1 + 1 + 1 + 1]		
2 (a)) (i)	Goo Histo	<u>mples</u> d views / attractive scenery (1) orical building (1) ess by roads/paths (1)			[1]	
	(ii)	Cafe	9			[1]	
(b)) (i) (ii)	Stud Star Cour Use Use Tally	mples dent(s) in pairs/groups (1) t counting people walking <u>at same time</u> (1) nt people walking <u>to the tower</u> (1) a stopwatch/timer to measure time (1) 10 minutes / >10 minutes / same time span (1) y method/counter to record pedestrians (1) mples from the Table	[1	+ 1 + 1 + 1]	[4]	
	()	Not a Suni Goo Attra	a working day/children not at school (1) ny/dry/warm weather (1) d visibility from hilltop (1) action / tower open (1) er closed on Wednesday (<u>1 max for ref to Wednesd</u>	av)	[1 + 1]	[2]	
		1000	el closed on wednesday (<u>1 max loi rei to wednesd</u>	<u>lay)</u>	[1 , 1]	[4]	
(c)) (i)		n <u>pletion of scatter graph</u> s at 12 (site 4) and 27 (Site 5). 1 mark per plot.		[1 + 1]	[2]	
	(ii)	High <u>But</u> u Sam Path	mples <u>: NOTE this refers to Fig 9 i.e. the SUNDAY panest</u> nest number of people at site 5 / nearest tower OR be number of walkers generally decreases towards tow ne pattern of results for both paths (1) n A: 45 to 36 to 50 (1 max for any two of these figure n B: 16 to 12 to 27 (1 max for any two of these figure	ooth highest near ver / from Site 1– es)			
		<u>Crec</u>	<u>dit data (two numbers from either A or B) to 1 mark r</u>	max but not a res	<u>serve mark</u> [1 + 1 + 1]	[3]	

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(iii)	High via o High takin Path High Path	<u>mples (Can be reverse of following)</u> nest number at site 5 / tower because people may have other paths (1) nest at site 5 / tower because of any valid activity e.g. can ng photographs / picnics / enjoy the views (1) n A goes from a car park (1) ner number at site 1 on path A because people stay clos n B may be too steep to go all the way (1) wander off path between Sites 1/5 (1)	ctivity e.g. came earlier and stayed the 1)		ere
(d) (i)	Work Put o Estin Estin by 4	<u>mples</u> ked in pairs / groups (1) quadrat on ground / down (1) mate/count number of squares which include vegetatior mate/work out percentage of quadrat with bare soil/veg = 100% (1) ord their results (1)			
(ii)	1 ma	n <u>pletion of divided bars</u> ark for correct plot of bar at 44/56% and shading for Site ark for correct plot of bar at 10/90% and shading for Site		[1 + 1]	[2
(iii)	<u>Path</u>	A: Hypothesis is incorrect / not supported			
		the exception of site 5 percentage of bare ground / veg milar / varies slightly / fluctuates for all sites (1)	getation cover		
	<u>Path</u>	B: Hypothesis is correct / agree with hypothesis			
		e ground percentage increases / vegetation cover decreer (1)		site nearer t + [1HA + 1]	
Moi Sar Do Mea Do Use Do	ry out re san mple r more asure more e data pedes	t pilot study (1) mpling sites on each path (1) more paths up hillside (1) quadrat samples at each site (1) e depth of footpath erosion at each site (1) pedestrian counts at different times of the day / more of a from Wednesday & Sunday / don't ignore Wednesday strian count at different times of year / seasons (1) er students to check results (1)		[1 + 1 + 1]	[;
(f) <u>Exa</u>	molo	s must be physical things they could see not strategies	that could be		

Paved path / aggregate / limestone / artificial surface man-made paths (1) Signs to tell walkers to stay on paths / warnings re fines (1) Information boards (1) Fences/barriers alongside paths / conservation areas (1) Re-seeding worn areas / fenced off (1) Wardens / guides / security guards (1) Litter bins (1)

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Car parks (1) Seating / picnic places (1)

[1 + 1 + 1] **[3]**