CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level



MARK SCHEME for the May/June 2013 series

2217 GEOGRAPHY

2217/22

Paper 2 (Investigation and Skills), maximum raw mark 90

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
				GCE O LEVEL – May/June 2013	2217	22
				Section A		
1	(a)	(i)	Hut			[1]
		(ii)	Dip ⁻	Tank		[1]
	(iii)	Grav	vel/Earth		[1]
	(iv)		ect on north side of Murowodzui ect on south side of Murowodzui		[2]
	(b)	(i)	1 35	6.2 <u>metres</u>		[1]
		(ii)	3 80 100-	0–4 000 -105		[2]
				7–41 mm from the left ne 25–28 mm from left		[2]
	(d)	(i)	Ridg Runs Stee Stee Heig Lowe Depi Mair Rang Valle Tribu	s N/NE to S/SW p slopes pest slopes on ridge/Hilltop hts to 1 320/1 340 m (1 mark for any height within ra est land 1 240/1 260 m (1 mark for any height within ression n valley/river runs N/NE to S/SW/parallel to ridge/be	range)	Hunyani
			Max	4 for relief		[5]
		(ii)		vation in valleys/by rivers/flatter land/lower land se bush on high land/steeper land/ridge/hills		[2]
	(iii)	019/	9 854		[1]
						[Total: 20]

	Page 3		6	Mark Scheme S	Syllabus	Paper
				GCE O LEVEL – May/June 2013	2217	22
2	(a)	(i)	1 30	0		[1]
		(ii)	Bart	on		
		()	Bror			[2]
		(iii)	Plac	e of worship		[1]
		(iv)	Seco	ondary School		[1]
	(b)	(i)	New	/borough		[1]
		(ii)	Nea Peo	v development so services not built yet r main town (so people go to main town) ple work elsewhere and use facilities at workplace		
			Pool	r area so not enough wealth to support lots of servic	es	[2]
						[Total: 8]
3	(a)	(i)	Corr	rect completion of Fig. 4		[1]
		(ii)	Tam	ibora		[1]
		(iii)	Neva	ado del Ruiz		[1]
	(b)		canic	us gases/smoke/smog bombs		
			nars/p eral b	yroclastic flow last		[2]
	(c)	Cro Ani Fre Sto Sur Ter Peo	pps de mals shwa red fo nlight npera ople e	ve land covered in debris/grazing land destroyed estroyed killed ter fish killed bod destroyed reduced ature changes evacuated from crop producing areas island so no outside help		
				island so long time for supplies to arrive		[3]
						[Total: 8]

	Page 4			Mark Scheme Syllabus		Paper
				GCE O LEVEL – May/June 2013	2217	22
4	(a)	(i)		vated slopes slopes		[1]
		(ii)	High	er (rate than any landscape in Cote d'Ivoire)		[1]
	(•		vy rain storms ular rainfall		[1]
	(b)		Heav Dam	ine in coral vy siltation/ <u>extensive</u> deposition aged mangroves ine in fish stocks		[2]
		. ,	Dam Slow Less	uces depth/channel capacity ming effect causes water to build up vs river flow vegetation so less interception/more run-off er not slowed by infiltration/less infiltration		[3] [Total: 8]
5	• •	Area Hart	oour	igh land = C		[4]
	(b)	(Sca	attere	d – spaces within housing areas/patches in the city d) trees – within housing areas/along roads/scattere on hillside/steep land/high land	ed across the city	[4]
						[Total: 8]

	Pa	ige 5	5	Mark Scheme	Syllabus	Paper
				GCE O LEVEL – May/June 2013	2217	22
6	(a)	(i)	Red Loss	uced shop trade (reduced income) uced hotel (reduced income) s of jobs/increased unemployment d to commute for jobs		[2]
		(ii)		s traffic/congestion s air/noise/water/visual pollution		[1]
	(b)	(i)	Mair	t trip is shorter/closer to the open sea n road not through town/it's on the main road ser to capital city		[2]
		(ii)	15 ki	m		[1]
	(c)		uth-we sure f	est acilities		[2]
						[Total: 8]

	Pa	ge 6	;	Mark Scheme	Syllabus	Paper	
				GCE O LEVEL – May/June 2013	2217	22	
				Section B			
7	(a)	(i)	9,10	,11,12 (October) or 9–12th; dates can be in any ord	ler.		[1]
		(ii)	Rain	n gauge			[1]
		(iii)	Rain Rain Rive Rive Inter	<u>mples – look for two causes of time lags</u> a does not fall directly into river (1) water needs time to drain into the river (1) er level continues to rise after the rain stops/during ra er is not full/at bankfull discharge (1) rception by trees/vegetation (1) a stored in rocks/soil (1)	ainfall (1)	[1 + 1]	[2]
						[, , ,]	[~]
	(b)	(i)	Seco	ondary			[1]
		(ii)	More Build By-p Raily Less Park	mples (Can compare either way between years) e built-up / urban area is larger (1) dings constructed near river / on floodplain (1) bass / road constructed (1) way lines do not continue/destroyed/cut off (1) s woodland area (1) cland in different places (1) er route different (1)		[1 + 1]	[2]
	(c)	(i)	Ope Flat Chea	<u>mples</u> n space/expansion for buildings (1) land (1) ap land (1) er for transport/cooling/manufacturing/power (1 max	(for water)	[1 + 1]	[2]
		(ii)	Resi Man Man	mples: must be a comparison idential buildings are east/NE but manufacturing are ufacturing buildings are more/further downstream th ufacturing buildings are <u>nearer</u> the river/residential a n are on same side/north of river (1)	nan residential (1)		[2]
		(iii)	1 ma	n <u>pletion of pie graph</u> – manufacturing (12%) and put ark for correct line; must be <u>within 5%</u> of vertical (sh ark for correct shading using the key.	- ()	[1 + 1]	[2]

¥	•	Mark Scheme	Syllabus	Paper	
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(iv)	Нур	othesis is false / incorrect / not true			
	Only	t / majority / mainly/ over half /55%/ 73/133 of buildir / 16 out of 133/ 12% buildings are for manufacturing	(1)	pping (1)	
	NOre	e buildings are for residential / office use than manuf	facturing (1)	[1HA + 2]	[3
(d) (i)	1 ma	npletion of divided bar graph ark for correct line at 15 from either direction (1) ark for YES/NO in bars or appropriate key is clear (1)	[1 + 1]	[2
(ii)		npletion of bar graph ark for plot at 64; no credit for shading.			[1
(iii)	Mos All o Mos or 8º	<u>mples: Can give reverse for credit (NB NO HYPOTH</u> t or 95/110 or 86% had no warning (1) OR only 15/1 r 100% or 110/110 businesses had increase in insu t or 101/110 or 92% businesses were affected by los % were not affected by loss of customers (1) t or 99/110 or 90% businesses had repair costs (1)	10 or 14% had v rance costs (1)		10
	Crea	dit data to 1 mark max but not a reserve mark		[1 + 1 + 1]	[3
(a) Ev					
Fer Wa Car Flat	tile so ter <u>fo</u> n use t land	<u>s of Opportunities:</u> bil/good <u>for</u> farming (1) <u>r</u> irrigation /crops/drinking/bathing etc (1 max for refs river <u>for</u> transport (1) <u>for</u> building roads / railways (1) source of fish for food (1)	s to water)		

Page 8					Paper	
			GCE O LEVEL – May/June 2013	2217	22	
(f)	Affo Cor Bui Stra Dig Dre Bui	oresta nstruc Id em aighte a floo edging	size / depth of river channel (1) ation in catchment area (1) at a dam / creates a reservoir (1) bankments / levees / walls / barriers (1) en river course / remove meanders (1) od relief channel / divert river (1) g river / removing debris (1) rainage system/ditches (1)	[1 -	+ 1 + 1 + 1]	[4]
8 (a)	(i)	Goo Histo	<u>mples</u> d views / attractive scenery (1) prical building (1) ess by roads/paths (1)			[1]
	(ii)	Cafe				[1]
(b)	(i)	Stud Star Cour Use Use	<u>mples</u> lent(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) v method/counter to record pedestrians (1)	[1 -	+ 1 + 1 + 1]	[4]
	(ii)	Not a Suni Goo	<u>mples from the Table</u> 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 Wednesda</u>	<u>ay)</u>	[1 + 1]	[2]
(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> ı Sam Path	mples <u>: NOTE this refers to Fig 9 i.e. the SUNDAY parent</u> lest number of people at site 5 / nearest tower OR be number of walkers generally decreases towards towe he pattern of results for both paths (1) A: 45 to 36 to 50 (1 max for any two of these figures B: 16 to 12 to 27 (1 max for any two of these figures	oth highest near er / from Site 1– s)		
		<u>Crec</u>	dit data (two numbers from either A or B) to 1 mark m	nax but not a res	<u>erve mark</u> [1 + 1 + 1]	[3]

Page 9)	Mark Scheme	Syllabus	Paper	
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(iii)	High via c High takir Path High Path	mples (Can be reverse of following) nest number at site 5 / tower because people may hapter paths (1) nest at site 5 / tower because of any valid activity e.g 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 n B may be too steep to go all the way (1) wander off path between Sites 1/5 (1)	g. came earlier a	nd stayed ther k (1)	re/
(d) (i)	Wor Put o Estir Estir by 4	<u>mples</u> ked in pairs / groups (1) quadrat on ground / down (1) mate/count number of squares which include vegeta mate/work out percentage of quadrat with bare soil/v = 100% (1) ord their results (1)		squares count	teo [3
(ii)	1 ma	n <u>pletion of divided bars</u> ark for correct plot of bar at 44/56% and shading for ark for correct plot of bar at 10/90% and shading for		[1 + 1]	[2
(iii)	<u>Path</u>	A: Hypothesis is incorrect / not supported			
	is siı	the exception of site 5 percentage of bare ground / milar / varies slightly / fluctuates for all sites (1) B: Hypothesis is correct / agree with hypothesis	vegetation cove	er	
	Bare	e ground percentage increases / vegetation cover de er (1)) [4
Mo Sar Do Me Do Use Do	ry ou re sar mple i more asure more e data pede	<u>s</u> t pilot study (1) mpling sites on each path (1) more paths up hillside (1) quadrat samples at each site (1) depth of footpath erosion at each site (1) pedestrian counts at different times of the day / mo from Wednesday & Sunday / don't ignore Wednes strian count at different times of year / seasons (1) er students to check results (1)		[1 + 1 + 1]	[3
(0 -	mala	s must be physical things they could see not strated	rice that could b	a comical cut	

(f) Examples must be physical things they could see not strategies that could be carried out

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]**