MARK SCHEME for the May/June 2007 question paper

2217 GEOGRAPHY

2217/02

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2		Mark Scheme	Syllabus	Paper			
		GCE O LEVEL – May/June 2007	2217	02			
		Section A					
(a)	8599	930/1			[
(b)	4.9 t	o 5.1 km / 4900 to 5100 m / 3 – 3.125 miles					
(c)	Sout	h West			[
(d)	(d) Water tank						
(e)	(i)	sugar plantations/cultivation and other plantations/scat tanks/water channels or water courses/gentle slope/be tracks (no need to specify cane) or road 3x1			[3		
	(ii)	steep slopes/cliffs/gap or col or pass or gorge (accept around 250 m +or – 20/mostly scattered trees or scrub sugar plantations in south/irrigation feeder channel 4	/power line/tracks		[4		
(f)	(i)	Accept between 130 m and 148 m			[^		
	(ii)	valley or between mountains/fed by steams or water compountains/demand for water for irrigation or plantation local settlement or people 2x1			[2		
	(iii)	Much of lake has become marsh or swamp/about half silt brought down by streams/length of embankment is for current lake/2x1 Allow 1 for development e.g. edge edge of lake used to be.	much longer thar	n needed	[2		
	(iv)	irrigation channel (in 8894 or 9093)/water supply for plastation	antations. Pipelin	e to power	[
(g)	throu	network of roads or tracks/buildings spread out or dispeugh it/services mainly in NE of town/services close to ma g roads or tracks 3x1			[;		
				[Total:	: 20		

	Page 3		Mark Scheme		Syllabus	Paper	
			GCE O LEVEL – May/June 2007		2217	02	
2	(a)	correctl Bounda		t as dott 1 1	ed lines. Use th	e key to	[2]
	(b)	e.g. pas e.g. mo e.g. bou Max 3 f 1 mark 2 marks e.g. bou e.g. bou	per general point sses through oceans rather than land in most ca ore in southern oceans or more in southern part undary through Atlantic ocean or mid Atlantic ric for general points for up to two specific examples of constructive s for three or more examples undary of South American Plate and African Plat undary of Antarctic Plate and Pacific Plate for specific examples	of map dge boundar	ries		[3]
	(c)	OR Both typ OR Correla Weaker bounda Credit e E.g. no having E.g. fev E.g. vol	reas of volcanic activity match up with/correlate/ pes of boundary are associated with volcanic ac ation or close link or similar with destructive bound r link/less correlation or similar between volcanic aries exceptions to pattern volcanoes in Himalayas/central Asia/north of Ir destructive boundary w volcanoes in Southern Ocean, although const lcanic activity in Central Pacific although no bou other valid observations 4x1	ctivity ndaries c activity ndia/how tructive b	y and constructi vever described poundaries ther	ve despite	[4]
	(d)	to subd	aries represent weaknesses in earth's crust or n luction zones 1 lava or magma to escape or forms volcanoes			eference	[2]

[Total: 11]

Page 4	Mark Scheme	Syllabus	Paper
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- 3 (a) (i) cliff C Credit any steep slope facing the sea
 - (ii) wave cut platform P Credit any area beyond shoreline (except open water)
 - (iii) a place where weathering is taking place **W** Accept any point which is inland from beach and on slope
 - (iv) a place where wave erosion is active E Credit any point at foot of cliffs where wave action will take place Accept points on wave-cut platform
 - (b) Broken down by water/attrition/moved along coast/become beach/longshore drift/accept 'washed away'. [1]
 - (c) Waves reach base of cliff/waves more powerful at base of cliff Not 'waves more powerful at high tide'.
 - (d) Reference to hardness of rock and resistance to erosion or collapse/credit for angle of strata/constructive waves have built up material which protects cliff/weathering of cliff has led to build of material which protects cliff (but not if weathering confused with erosion)/wide platform also protects cliff from full force of waves. 2 x 1 Max 1 mark for mentioning hardness or angle or deposition or platform but not saying why or how this affects steepness.

[Total: 8]

[4]

[1]

[2]

Pa	ge 5		Mark Scheme		Syllabus	Paper	
			GCE O LEVEL – May/June 20	007	2217	02	
4 (a)	(i)	Brazil	1.6% to 2.5%				[1]
	(ii)	Tanzania	2.6 to 3.5%				[1]
(b)	1 ma	ark for each	correctly shaded country.				[2]
(c)	(i)	e.g. mainly	general point to north of or away from equate ern or SE parts of South America of Asia				
		e.g. North	[·] specific area or country America/Europe/Russia/Japan// naming specific countries or area				[4]
	(ii)	Children liv need for la Pensions a for large fa Women ca Availability 1 mark per	DC countries which can be expr ve longer/better health care if qu rge families and other provision for old age/fe milies for economic/insurance p reer minded and so delay havin (or knowledge of) of birth contro- point for suggested explanation	alified e.g. re ewer people v ourposes g children ol or contrace	duces infant mo vork on land so l	ess need	
			2 development marks nildbirth means lower fertility rate	es			[4]
						[Tota	l: 12]
5 (a)		e, July, Augu our needed f	ist, September or mark				[1]
(b)	8 m	onths					[1]
(c)	'high		son or monsoon starts/rice need e' is not enough on its own. Ref r. 2x1				[2]
(d)		•	ow for rice growing/maybe a sho (however expressed)	ortage of wate	er/little rain falls o	during	[2]
(e)			rk if mention <u>more than one</u> fund or similar/sunlight/accept soil (bi			esting)/	[3]
						[Tot	al: 9]

Page 6	Mark Scheme	Syllabus	Paper
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Section B

6	(a)	Reas save costs can a Alter	ets: taller/higher buildings/narrower buildings sons; greater competition for land s space/conserves land s more to build wider/less to build narrower afford it (must be reasoned) natively, lower price of land means lower buildings; e space available so wider buildings	3 @ 1 mark Credit dev Res 1 mark for effect	[3]
	(b)	To m to en to fin to sa to ma	2 @ 1 mark	[2]	
	(c)	(i)	Correct plotting of Site C i.e. 4mm x 14mm and Site F i.e. 2mm x 16mm Presentation/sensible location/shading/orientation	1 mark per bar. 1 mark location	[3]
		(ii)	 e.g. The narrowest buildings are close to the sea the tallest buildings are along the main road the lower buildings tend to be at the edges of the town the largest buildings are in the centre of the town Spatial patterns referring to minor roads or distance from the sea etc. are also valid. Credit use of site or numbers as evidence to max 1 Credit anomalies e.g. G is equally tall but by the coast 	3 @ 1 mark Res 1 mark for data or anomaly	[3]
			No credit for wider on main road, as not a clear pattern.		
	(d)	(i)	More easily see the function; simpler data collection method; save time; every building has a ground floor; simple method	1 @ 1 mark	[1]
		(ii)	Correct BANK/DEPARTMENT STORES/MAIN POST OFFICE/ TOURIST OFFICE If general stores or housing then max 1 or 0	2 marks for 2 1 mark for 1	[2]
		(iii)	B ticked on script	1 @ 1 mark	[1]
		(iv)	Comparisons such as: Site A is commercial but Site E is tourist dominated Site A has an even division of functions but Site E is dominated by hotels Site A has a small number/one of hotels but site E has over half/six hotels Needs mention of Site A and E or comparative word. No explanation required. No credit for lists.	3 @ 1 mark Credit dev of both site A and site E (inc data)	

Page 7		Mark Scheme	Syllabus	Paper	
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(e)	sele diffe cour set t cars	s such as: ction of site/junction of roads rent students at different sites/locations it cars/pedestrians passing a point mes/synchronise/10 minutes/5 minutes /pedestrians/different directions recorded/tally weather co at at different time (not place)		@ 1 mark	[3]
(f)	(i)	Correct drawing of isoline US\$50; through the US\$50 at	Site C 2	2 @ 1 mark	
	(ii)	Correct shading of area over US\$60	1	@ 1 mark	[1]
(g)	-The hypothesis is correct/supported/partly supported -The centre of the town is at Sites A/B/E/along the main road The building height generally increases towards the centre of the town e.g. Site A three storeys; but Site G is also a high building; buildings are generally wider towards the centre of the town e.g. Site A 12 paces; the value of the land is higher along the main road and lower towards the sea in the south and the railway in the north e.g. above US\$60 in the centre but below US\$30 at the edge Max 3 if no data.		R the town 1 ildings are de paces; the R ards the 1 0 in the lo C	6 @ 1 mark Reserve 1 mark for decision and Reserve 1 mark for location Credit data in support	
7 (a)	(i)	Correct labelling of wave height, wave length, swash an backwash. Four correct for 2 marks, three correct for 1 mark	d 2	@ 1 mark	[2]
	(ii)	A destructive wave is where the backwash is stronger the swash/which removes material from the beach/erodes	nan the 1	@ 1 mark	[1]
(b)	(i)	Regular/organised/orderly sampling there is no student bias/choice in the site location/fairer; representative area is covered; easier to compare; easier/faster/quicke	more	@ 1 mark	[3]
	(ii)	Labels on the photo to identify other beach material, diff size; seaweed; more shell material; litter; other material	erent grain 3	@ 1 mark	[3]
(c)	(i)	Correct drawing of 57%, 20%, 6% and 17% segments i.e. lines at 57%, 77%, and 83% Correct use of the key, but order unimportant	3	@ 1 mark	[3]
	(ii)	e.g. Site 1 is mainly sand and shingle (small material), we Site 12 has much larger material of small pebbles and 'concerdit any comparisons but not lists.		@ 1 mark	[2]
	(iii)	The original ideas were correct/material was larger at th the beach. Data/photo evidence to support this idea	e back of 3	@ 1 mark	[3]

Page 8				Syllabus		Paper	
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(d)) The waves; from passing ships; the residents; tourists; washed down by river; wind; cliffs; sewage system/hotel; animals/birds		d down by	3 @) 1 mark	[3]	
(e)		rec obs oth sho tota	a. Students should walk along the beach 20 paces ford number of paces/location on sheet serve/check the area decide/score/grade/tick/record/cl fer material at each site ow understanding of the system al the scores for each site beat every 20 paces	assify the	Res for) 1 mark s 1 mark score/ de idea	[3]
		eith The the aw Ex ma	scription: e.g. The quality and amount of beach litter in her side of the beach e least amount of other beach material is at sites in the beach ay from W debris decreases; towards E debris increas planation: The wind and waves (two points developed iterial and these may get caught at the edges of the be hotel in the centre of the beach cleans the beach close tel	e centre of ses remove each	Res des	1 mark s 1 mark s and 1 rk exp	[4]
(f)	the tra easy the pa stude sievin bi-pol	ans me ace nt e ig is ar i	transect should be repeated at different times sect should be repeated at different parts of the beach thod to produce unbiased results is vary between different students error s quantitative not descriptive is subjective hoto/quadrat is small (implying not representative) etc		3 @	0) 1 mark	[3]