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## 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.

Pa	ge 2	Mark Scheme Syllabus er	
		GCE O LEVEL – May/June 2007 2217	
		Section A	
(a)	8599	930/1	1000
(b)	4.9 t	Mark Scheme Syllabus   GCE O LEVEL – May/June 2007 2217   Section A   030/1   0 5.1 km / 4900 to 5100 m / 3 – 3.125 miles	
(c)	Sout	h West	[1]
(d)	Wate	er tank	[1]
(e)	(i)	sugar plantations/cultivation and other plantations/scattered trees or scrub/water tanks/water channels or water courses/gentle slope/between 110 m and 130 m/ tracks (no need to specify cane) or road 3x1	[3]
	(ii)	steep slopes/cliffs/gap or col or pass or gorge (accept valley)/plateau to south/at around 250 m +or – 20/mostly scattered trees or scrub/power line/tracks/pipeline/ sugar plantations in south/irrigation feeder channel 4x1	[4]
(f)	(i)	Accept between 130 m and 148 m	[1]
	(ii)	valley or between mountains/fed by steams or water courses or water from mountains/demand for water for irrigation or plantations OR demand for water for local settlement or people 2x1	[2]
	(iii)	Much of lake has become marsh or swamp/about half lake now marsh/caused by silt brought down by streams/length of embankment is much longer than needed for current lake/2x1 Allow 1 for development e.g. edge of marsh shows where edge of lake used to be.	[2]
	(iv)	irrigation channel (in 8894 or 9093)/water supply for plantations. Pipeline to power station	[ <sup>2</sup> ]
(g)	throu	network of roads or tracks/buildings spread out or dispersed/one main road runs ugh it/services mainly in NE of town/services close to main road/buildings clustered g roads or tracks 3x1	[3]

	Pag	je 3	Mark Scheme	Syllabus A er
-			GCE O LEVEL – May/June 2007	2217 23
	(a)	correctl Bounda	oundaries around South America have been left as d y mark these boundaries. ary along western edge is destructive 1 ary in Atlantic to east is constructive 1	Syllabus 2217 otted lines. Use the key
	(b)	e.g. pas e.g. mo e.g. bou	per general point sses through oceans rather than land in most cases re in southern oceans or more in southern part of ma undary through Atlantic ocean or mid Atlantic ridge or general points	
		2 marks e.g. bou e.g. bou	for up to two specific examples of constructive bound s for three or more examples undary of South American Plate and African Plate undary of Antarctic Plate and Pacific Plate or specific examples	laries [3]
	(c)	OR Both typ OR	eas of volcanic activity match up with/correlate/simila bes of boundary are associated with volcanic activity tion or close link or similar with destructive boundarie	
			r link/less correlation or similar between volcanic activ	
		E.g. no having E.g. few E.g. vol	exceptions to pattern volcanoes in Himalayas/central Asia/north of India/h destructive boundary v volcanoes in Southern Ocean, although constructive canic activity in Central Pacific although no boundary other valid observations 4x1	e boundaries there
	(d)		ries represent weaknesses in earth's crust or moven uction zones 1	nent of plates or reference
		Allows I	lava or magma to escape or forms volcanoes or sim	ilar 1 [2]

[Total: 11]

Pa	ge 4	Mark Scheme	Syllabus er	
		GCE O LEVEL – May/June 2007	2217 22	
			Syllabus 2217 Bhacamp	1
(a)	(i)	cliff <b>C</b>	10	nia
		Credit any steep slope facing the sea		30
	(ii)	wave cut platform P		1
		Credit any area beyond shoreline (except open water)		
	(iii)	a place where weathering is taking place <b>W</b>		
	( )	Accept any point which is inland from beach and on slope		
	(iv)	a place where wave erosion is active <b>E</b>		
	( )	Credit any point at foot of cliffs where wave action will take	e place	
		Accept points on wave-cut platform		[4]
(b)	Brok	en down by water/attrition/moved along coast/become beau	h/longshoro drift/accont	
(b)		shed away'.		[1]
(c)	Wav	res reach base of cliff/waves more powerful at base of cliff		
(-)		waves more powerful at high tide'.		[1]
(d)	Refe	erence to hardness of rock and resistance to erosion or colla	apse/credit for angle of	
		a/constructive waves have built up material which protects of		
		led to build of material which protects cliff (but not if weather ion)/wide platform also protects cliff from full force of waves		
		1 mark for mentioning hardness or angle or deposition or p		
	why	or how this affects steepness.		[2]

[Total: 8]

Pa	ge 5		Mark	Scheme	Syllabus	er
	•		GCE O LEVEL	_ – May/June 2007	2217 22	2
(a)	(i)	Brazil	1.6% to 2.5%		Syllabus 2217 Ang	ambrid
	(ii)	Tanzania	2.6 to 3.5%			Se
(b)	1 ma	ark for each o	correctly shaded	d country.		[2]
;)	(i)	e.g. mainly	ern or SE parts o	way from equator of South America		
		e.g. North		r country e/Russia/Japan/Australi countries or areas nam		[4
	(ii)	Children liv need for la Pensions a for large fa Women ca Availability 1 mark per	ve longer/better rge families and other provisi milies for econo reer minded and (or knowledge o	ion for old age/fewer pe omic/insurance purpose d so delay having childi of) of birth control or co sted explanation	e.g. reduces infant mortality/ eople work on land so less ne	eed
				lower fertility rates		[4
						[Total: 12]
(a)		e, July, Augu our needed f	ist, September or mark			[1]
(b)	8 ma	onths				[1
(c)	'high		e' is not enough		and water/very dry before the needed to rice requiring hot,	
(d)			ow for rice grow (however expres		of water/little rain falls during	[2
(e)				<u>pre than one</u> function (p ht/accept soil (but not ju	lanting, weeding, harvesting ust land) 3x1	)/ [3
					,	

Pa	ge 6	Mark Scheme Syllak	ous 🔗 er	
		GCE O LEVEL – May/June 2007 221	7 12	
ection	B		Cann	bri.
				103
(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	
(b)	to er to fin to sa	ake sure there was a change in buildings sure that appropriate/correct/right areas were studied d information about the town ve time later ake the investigation more representative	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.	3 @ 1 mark Res 1 mark for data or anomaly	[3]
		Credit use of site or numbers as evidence to max 1 Credit anomalies e.g. G is equally tall but by the coast No credit for wider on main road, as not a clear pattern.		
(d)	(i)	More easily see the function; simpler data collection method; sav time; every building has a ground floor; simple method	e 1@1mark	[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/sit hotels Needs mention of Site A and E or comparative word.	and site E	

Pa	ge 7	Mark Scheme	Syllabu	······································	
		GCE O LEVEL – May/June 2007	2217	No.	
(e)	Ideas such as: selection of site/junction of roads different students at different sites/locations count cars/pedestrians passing a point set times/synchronise/10 minutes/5 minutes cars/pedestrians/different directions recorded/tally weather conditions; repeat at different time (not place)		ditions;	MMM. Papacanna 3 @ 1 ma	010-
(f)	(i)	Correct drawing of isoline US\$50; through the US\$50 at \$	Site C	2 @ 1 mark	[2
	(ii)	Correct shading of area over US\$60		1 @ 1 mark	[1
(g)	-The The e.g. gene value sea cent	hypothesis is correct/supported/partly supported centre of the town is at Sites A/B/E/along the main road building height generally increases towards the centre of th Site A three storeys; but Site G is also a high building; build erally wider towards the centre of the town e.g. Site A 12 part of the land is higher along the main road and lower toward n the south and the railway in the north e.g. above US\$60 re but below US\$30 at the edge 3 if no data.	dings are aces; the rds the	6 @ 1 mark Reserve 1 mark for decision and Reserve 1 mark for location Credit data in support	[6
(a)	(i)	Correct labelling of wave height, wave length, swash and backwash. Four correct for 2 marks, three correct for 1 mark		2 @ 1 mark	[2
	(ii)	A destructive wave is where the backwash is stronger tha swash/which removes material from the beach/erodes	an the	1 @ 1 mark	[1
(b)	(i)	Regular/organised/orderly sampling there is no student bias/choice in the site location/fairer; r representative area is covered; easier to compare; easier/faster/quicker		3 @ 1 mark	[3
	(ii)	Labels on the photo to identify other beach material, diffe size; seaweed; more shell material; litter; other material	rent 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), wh Site 12 has much larger material of small pebbles and 'ot Credit any comparisons but not lists.		2 @ 1 mark	[2
	(iii)	The original ideas were correct/material was larger at the the beach. Data/photo evidence to support this idea	back of	3 @ 1 mark	[3

Pa	ge 8		Mark Scheme	Syllabus	er er	
			GCE O LEVEL – May/June 2007	2217	1030	
(d)			res; from passing ships; the residents; tourists; washed nd; cliffs; sewage system/hotel; animals/birds	d down by	3 @ 1 mark Res 1 mark	bidge
(e)	(i)	rec obs oth sho tota	y. Students should walk along the beach 20 paces cord number of paces/location on sheet serve/check the area decide/score/grade/tick/record/cla her material at each site ow understanding of the system al the scores for each site beat every 20 paces		3 @ 1 mark Res 1 mark for score/ grade idea	[3]
		eith The the awa Exp 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 increase planation: The wind and waves (two points developed) iterial and these may get caught at the edges of the beach e hotel in the centre of the beach cleans the beach close tel	e centre of es remove ach	4 @ 1 mark Res 1 mark des and 1 mark exp	[4]
(f)	the tr easy the p stude sievir bi-po	rans mer ace ent e ng is lar i	transect should be repeated at different times sect should be repeated at different parts of the beach thod to produce unbiased results so vary between different students error s quantitative not descriptive is subjective hoto/quadrat is small (implying not representative) etc.		3 @ 1 mark	[3]