CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2013 series

2217 GEOGRAPHY

2217/22

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

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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 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 – October/November 2013		2217	22	
1	(a)	Location		Six-Figure Grid Reference	Direction from Cumberland Hill	Distance Cumberla	from and Hill (m)
		Fire Stat	ion	580816	SW	1950	
		(St Ann's	s) Hospital	631811	SE	3900	
		Junction class roa Maraval		626838	NE	3200-330	00 [4]
	(b)		•	n's more irregula sity / St Ann's lov			
				Ann's more slopir t Ann's more ope	ng n space / forest / scru	b / gardens	[2]
	(c)	(i) 6278	3				[1]
		Build The Built Isola	dings more oval – gras round Jac ited buildin	ea between roads spaced in centre ssland with buildir kson / Siegert Sq gs in grassland a s mainly in south	and north ngs round uare / open space		[4]
	(d)	Sports g Golf Cou Country Commur Hotel Film City Camp Og Rock Ga	rse Club hity Centre gden				[3]
	(e)			Grid Square 5880	Grid Square 6078	Both of these areas	Neither of these areas
		Example wharf cliff hotel jetty lighthous mangrov sand and	e e	✓ ✓	✓ • ✓	✓	✓ ✓ [6]

	Page 3	Mark Scheme	Syllabus	Paper
		GCE O LEVEL – October/November 2013	2217	22
2	(a) (i) Ru	ssia		[1]
	(ii) Ch	ina		[1]
	(iii) US	SA		[1]
	(iv) Bra	azil and Australia		[1]
	(b) (i) Co	rrect completion of graph		[1]
	(ii) 34	million		[1]
	(c) (i) Sc	attergraph		[1]
	(ii) No	relationship		[1]
				[Total: 8]
3	Mixture Awning Concre Both sid Signag Some u Light / o Conneo (b) Tarmad Smooth Lines v	des of road e upper levels / different heights dull coloured / some unpainted cted to electric c v concrete / dirt n v uneven no lines		[4]
	Separa Street I	area / dual carriageway / lanes / two way v one lane te pedestrian path v pedestrians in the road ighting v no street lighting ge v no drainage	/ one way	
		road in A		[4]
				[Total: 8]
4	(a) (i) Sp	it		[1]
	Mc	est common wind direction st likely wind direction		•
		rection wind blows most often		[1]
	(iii) Arr	row to the north		[1]

Page 4			Mark Scheme Syllab		us Paper	
		-		GCE O LEVEL – October/November 2013	2217	22
	(b)	(i)	May Mos Lack Wind Ove Dam Loss Distr Too Too	ground / unstable land / not strong land flood quitoes / insects / diseases from marsh of shelter d blown sand r ½km from village / road hage to salt marsh hage to sand dunes s of species urbance of vegetation sucession much traffic in village much noise in village r in village		[4]
		(ii)		le for shop / pub		
			Emp	oloyment opportunities		[1]
						[Total: 8]
5	(a)	(i)	Hon	shu		[1]
		(ii)	To N	IW .		[1]
	(b)	400	-525	km		[1]
	(c)	(i)	Corr	rect labels on Fig. 5		[4]
		(ii)	Dest	tructive boundary		[1]
						[Total: 8]
6	(a)	+0.2	reasir 25°C reasir 4°C			[4]
	(b)	(i)	Cha	ed sea level nge in ocean temperature nge in fish distribution		[2]
		(ii)	Thro	ough changes to weather patterns		[1]
		(iii)		ne temperate areas will have temperatures previousl eased flooding gives more areas for mosquitoes to b		[1]
						[Total: 8]
						[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]

Page 5		5	Mark Scheme	Syllabus	Paper
			GCE O LEVEL – October/November 2013	2217	22
			Section B		
7	(a) (i)	Exa	mples		
-	() (-)		essibility/reachable/easy to get to/is it private land (1)	
			ance from source/between sites (1)	,	
			y from human impact/buildings/houses (1)		
		•	th/width of water/might flood (1)		
			city/fast flowing/strength of current (1) ty ref wild/dangerous animals (1)		
			near waterfalls/rapids (1)		[3 × 1 = 3]
	(ii)		nsure consistency/fairness of results (1)		
			city/depth/width/river conditions may change (1)	the energy (1)	F41
		vvea	ther/rainfall might change/on same day should stay	the same (1)	[1]
	(iii)	Exa	nples		
	. ,	Agre	e methodology on what measurements to take (1)		
			out what does not work/change it/reduce errors (1)		
			tise fieldwork techniques/get experience/get idea wh /learn how to use equipment (1)	hat to do (1)	
			erience of working as a team (1)		
		-	out how long it would take (1)		[2 × 1 = 2]
	(b) (i)	Δne	wers to focus on the diagram.		
			s/sticks put on <u>each bank of the river</u> (1)		
			g/ropes stretched between the poles/sticks across t	<u>he river</u> (1)	
			sure a fixed/given distance along river/measure 10n	า (1)	
			lents at each end of the fixed distance (1)		
			t/floating object put in the river (1) sure time float takes to travel distance (1)		
			eat across river/in 3 channels (1)		[3 × 1 = 3]
	<i>(</i> 11)		· · · · · · · · · · · · · · · · · · ·		
	(ii)		flow meter below surface of river/submerge it (1)		
			beller must be facing upstream (1) I in water for sensible/specified time (1)		
			ord reading/read the meter (1)		
			e several readings (1)		
		Calc	ulate average (1)		[3 × 1 = 3]
	(iii)	Com	pletion of line graph sites 4 (7.8 and 0.60) & 5 (10.5	and 0.78)	
	()		ark for each correct plot = 2 marks; no marks for line		
		No r	need to put 4 and 5 by plots		[1 + 1 = 2]
	(iv)	Hvp	othesis is TRUE		
	()		rall velocity increases 0.36 to 0.78 so does distance	from source 1.8	3 to 10.5 (1)
			rall velocity increases 0.36 to 0.78 as distance increa		I–5 (1)
		No r	nark for ref to anomaly at 4; answer must support Tr	ue judgement.	
		OR	Hypothesis PARTLY TRUE		
		Beca	ause of an anomaly at Site 4 where velocity decreas		
		Beca	ause from Site 3 to Site 4 velocity drops/reduce	s (1) OR from	
					[1HA + 1 = 2]

Page 6	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2013	2217	22

(c) (i) 1 mark each for one piece of relevant equipment and 1 mark each for method for both measurements. Can get method mark even if equipment not allowed.

Equipment: tape measure/tape/metre rule (1 Reserve)

How: Stretch tape measure across river (1) Stretch rope across river then measure it (1)

Depth of river:

Equipment: ruler/measuring stick/string & stone/ranging pole/stick & ruler (1 Reserve)

How: Measure depth at intervals (1)	
Rest ruler upright (1)	
Must touch river bed (1)	
Measure up to where the water is wet (1)	[2 × (1R + 1) = 4]

- (ii) 0.22
- (iii) 2.54 (Accept 2.542)
- (iv) Examples River is deep (1) Fast-flowing/strong current (1) Current may pull tape downstream (1) Tape may not be long enough (1) [1 + 1 = 2]Dangerous with a reason not already credited above (1 max)
- (d) (i) Plot site 5 on scatter graph (0.78 Av Vel/0.50 HR). (No need for 5)
 - (ii) <u>Need two pieces of evidence (No need for units)</u> Velocity increases from 0.36 to 0.78 and Hydraulic radius increases (1) from 0.05 to 0.5/from Site 1–5 (1) Hydraulic radius increases from 0.05 to 0.5 and velocity increases (1) from 0.36 to 0.78/from site 1–5 (1). Can use any two sites that support the hypothesis [1 + 1 = 2]
- (e) Examples of different recording techniques for the VALLEY Could be across the valley or down the long profile. Measure/look at cross-profile/slopes/gradient/width of valley(s) (1) Sketches of five sites (1) Annotations/labels on sketch/drawings (1) Photographs of five sites (1) Describe changes/differences in vegetation in the valley (1) Describe changes/differences in human impact on the valley (1)

<u>Credit up to 3 marks if elaborate on 1 technique</u> $[(3 \times 1) \text{ or } (1 \times 2) + 1] \text{ or } [1 + 1 + 1 = 3]$

[Total: 30]

[1]

[1]

[1]

Page 7			Mark Scheme Syllabus		Paper	
				GCE O LEVEL – October/November 2013	2217	22
8	(a)	Hist Phy Hur Val Nat Cor Lin	vsical man fe ue of ural re oflictir ked la	<u>s</u> growth from centre outwards/planning policy (1) features with e.g. river valley/flat land/coasts. (1) eatures with e.g. railways/roads/accessibility (1) land/price/cost (1) esources with e.g. coal/minerals (1) ig land uses with e.g. housing away from industry (1 nd-uses with e.g. low-cost housing close to workpla as residential away from centre/CBD as was more s	ces/factories (1)	[1 + 1 = 2]
	(b)	(i)	Tall/ Focu Car Bank Larg Pede Histo Publ Hote Air/n Traff	nples multi-storey buildings/high land values (1) as of roads/railways/bus stations/railway stations/act parks (1) (s)offices (1) e shops/department stores/chain stores/shopping co estrianised area/lots of pedestrians/crowded (1) pric/religious buildings (1) ic buildings/city hall/government buildings (1) ds (1) oise pollution (1) ic congestion/rush hours/busy roads (1) set place (1)		er areas (1) [1 + 1 + 1 = 3]
		(ii)	Syst e.g. Rane e.g.	mark for type; one for description rematic sample (1) every 100m/regular/equal/specific (1) dom sample (1) pick sites off a map/pick <u>any</u> site (1) random numbers/tables to select sites (1)		[1 + 1 = 2]
	(c)	(i)	Offic Shop	dential = 6 es = 2 os = 2 2 correct = 1; 3 correct = 2		[1 + 1 = 2]
		(ii)	Divic	pletion of divided bar graph: order 217 from left OR ling lines = 1 mark (<u>To be annotated beneath the ple</u> ding = 1 mark (<u>To be annotated by the key</u>)		[1 + 1 = 2]
		(iii)	Easi Map Give Quic Disa Lose May	ole data to plot (1) er to compare/analyse (1) will be too cluttered with graphs (1) s a clear picture (1) ker/faster to present/draw/map/record/show (1) <u>aree:</u> es detail of different types of building (1) be fairly even split of land use/hard to choose main		
			<u>Crec</u>	lit either agree or disagree statements. If do both cre	<u>edit first</u>	[1 + 1 = 2]

Page 8 Mark S	Scheme Syllabu	is Paper
GCE O LEVEL – Oct	ober/November 2013 2217	22

(iv) Credit 1 max for each of four different land-uses in key.

 Residential
 areas are near waterfront/on edge of urban area/along transect A/in north-west/south/east/west (1)

 Office
 area is in the centre of city/in or near CBD/near docks (1)

 Shops
 area is along transect B/south of CBD (1)

 Industrial
 areas are near docks/close to motorway/along transect C/to south and east of CBD (1)

 Industrial
 Image: CBD (1)

(d) (i) Examples

Easier/quicker to count number of storeys (1)Difficult to measure actual height of tall buildings (1)Can measure ground floor height and multiply by storeys (1)[1]

- (ii) <u>Completion of sites 3 & 4 on transect C</u>
 10 Offices at 3; 4 Industry at 4.
 1 mark for each bar correct with correct shading [1 + 1 = 2]
- (iii) Hypothesis is TRUE/CORRECT

Evidence:

More storeys/>10 storeys for offices OR more storeys/>4 for shops (1)Fewer storeys/<3 storeys for residential OR less storeys/<4 storeys for industry (1)</td>More storeys in offices/shops than residential/industry (1)**[1R + 1 + 1 = 3]**

- (iv) <u>Examples</u> Buildings are built higher where land values are high/relates to land value (1) Buildings are higher where there is less space/relates to space (1) [1R + 1 + 1 = 3]
- (v) Ground floor use is often different from upper floors OR example e.g. might get flats above shops (1)
 [1]
- (e) Example: Accept max of 2 different topics with 1 elaboration of technique on each OR 1 topic with 3 good follow-up points about technique.

<u>Topic</u>: e.g. Environmental quality survey/litter/air pollution/noise pollution/vegetation survey. (<u>1 Reserve/2 max for valid topics</u>)

Techniquese.g. Choose different areas of city, e.g. industrial, residential, retail, open space (1)Carry out questionnaires (1)Interview people (1)Carry out bi-polar survey (1)Internet research must be qualified with a relevant aspect of the topic (1) $[(1 + 3) \text{ or } 2 \times (1 + 1) = 4]$

[Total: 30]