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for the guidance of teachers

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, which would have considered the acceptability of alternative answers.

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.

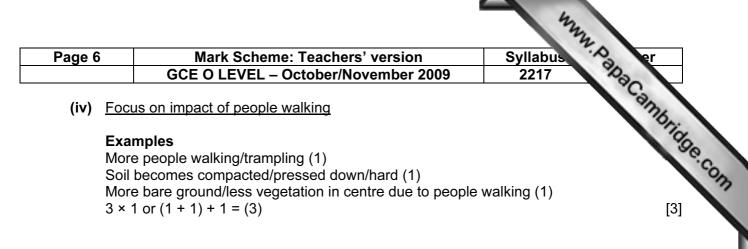
CIE is publishing the mark schemes for the October/November 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

					Syllabus 2217 BBC Anbridge Com [1]
	Pa	ige 2		Mark Scheme: Teachers' version	Syllabus A er
				GCE O LEVEL – October/November 2009	2217 730
1	(a)	(i)	Wide	e tarred road	and.
		(ii)	Wo	r SW or WSW	"age
	(b)	Fro	m SE	E/S to NW/N	[1] 2011
	(c)	(i)	Roa	ght difference = 38 m d distance = 6800 – 7000 dient = 1 in 179 to 1 in 185	[1] [1] [1]
		(ii)		d crossing valley d goes down and up	[1]
	(d)	(i)	R at I at ₄	asuring from A: : 3 – 7 mm 41 – 46 mm t 97 – 103 mm	[3]
		(ii)	Med Roa Trac Huts Build	ck/cut line/game trail	[4]
	(e)	(i)	Railv <u>Leis</u> Spor <u>Hea</u>	rts Field/Club/Golf Course	[1] [1] [1]
		(ii)	Accu	uracy of position uracy of shape ction of flow towards north	[3]
					[Total: max 20]
2	(a)	(i)		rect rainfall rect temperatures	[2]
		(ii)	1°C		[1]
		(iii)		nperature = 27°C nfall = 70mm	[2]
	(b)	Les	s sur	nshine/more cloud cover	[1]

Paç	ge 3		yllabus 🔗 er
		GCE O LEVEL – October/November 2009	2217 23
	waterbo mud inadequ <u>High ten</u> no need promote		yllabus 2217 Phocomphine [2] [Total: max 8]
	Algeria a D.R. Co		[2]
	Intensiv NE	e	[2]
	allow de Disadva contact pollutior	ields pests/diseases evelopment – increased income/less food shortages intages with toxins (at work) n in water supply	
	eutrophi		
		useful insects or each section	[4]
			[Total: max 8]
(a)	Correct	locations of B, C and P	[3]
(b)	Rig	ht has more vegetation on slope/left has less vegetation on s ht has rounded top/left is vertical to the top/left is steeper ht has vegetation at base/left has no vegetation at the base	slope [2]
	Rig Rig	ht has base of cliff protected from wave action/left is expose ht has no cliff retreat/left has retreating cliff ht has rounded top due to weathering/left has cliff collapse ht has material not being washed away so veg. grows/left ha	
		ht is protected from salt water/left has salt splash which prev	
			[Total: max 8]

GCE O LEVEL – October/November 2009 221 (a) Ranked in order as follows: Norway Canada Italy New Zealand Indonesia Honduras Georgia Haiti 2 (b) (i) 2 correct plots (ii) Indonesia 44% primary, 38% tertiary New Zealand 12% primary, 57% tertiary + or – 1 on all figures 1 correct for 1 mark, all correct for 2 marks. (c) MEDCs have higher % tertiary/LEDCs have lower % tertiary MEDCs have higher % in secondary/LEDCs lower % secondary (a) Two correct divisions	pus 7 2 (1) (2)
 Norway Canada Italy New Zealand Indonesia Honduras Georgia Haiti (b) (i) 2 correct plots (ii) Indonesia 44% primary, 38% tertiary New Zealand 12% primary, 57% tertiary + or – 1 on all figures 1 correct for 1 mark, all correct for 2 marks. (c) MEDCs have higher % tertiary/LEDCs have lower % tertiary MEDCs have higher % in secondary/LEDCs lower % secondary 	[1] [2]
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 New Zealand 12% primary, 57% tertiary + or – 1 on all figures 1 correct for 1 mark, all correct for 2 marks. (c) MEDCs have higher % tertiary/LEDCs have lower % tertiary MEDCs have lower % primary/LEDCs have higher % primary MEDCs have higher % in secondary/LEDCs lower % secondary	[2]
MEDCs have lower % primary/LEDCs have higher % primary MEDCs have higher % in secondary/LEDCs lower % secondary	
(a) Two correct divisions	[3] [Total: max 8]
	[2]
(b) Central America	[1]
(c) Africa/Oceania/Canada	[1]
 (d) Land border/adjacent area – Central America Close proximity – Caribbean Rich nation/perceived opportunities such as jobs – South America, Asia Lack of opportunity to emigrate – Africa Similar opportunities – Oceania and other MEDCs Low population – Oceania Links through companies/family – Europe 	[4]
	^[+] [Total: max 8]

	5	Mark Scheme: Teachers' version	Syllabus 🔗 er
		GCE O LEVEL – October/November 2009	2217 22
(a) (i)		. cover and height need reference to use of early k. Any 4 points below; no reserves.	Syllabus 2217 quipment and/or what (1) s 10 metre transect (1)
	Vegetati	points are 1 metre apart/equidistant/systematic ion cover	(1)
	<u>Quadrat</u> Calculate	ed to measure width of path (1) by laying across used to measure area of veg/cover/bare ground e percentage of veg/bare ground by counting so	d (1).
	<u>Ruler</u> us	ion height sed to measure height of vegetation at each sam number of measurements and calculate average	
	4 × 1 = (- (-)
(ii)	•	tion of kite diagram.	
	2P + 1S	or each plot. Tick S for shading. = (3)	
(iii)		tion of bar graph. <u>Plot 4, 5, 12, 17</u> . Tick P twice. t = 2 marks, 2 or 3 correct = 1 mark Shading/1	
(iv)	If write h	esis is true – tick H (1) OR erosion does decreas hypothesis must change wording of that given. A lata in evidence.	
	Vegetati No veg.	<u>e</u> : More bare ground in centre. (1) ion increases in height away from centre (1) at site 6 in the centre but heights of 14 cm ar htre (1 + 1D)	nd 11 cm at sites 1 and 11 aw
	1H + 2 =		
(b) (i)	<u>Must ref</u> each.	er to three different pieces of equipment from di	iagram and what is done with
	Pour a s	es hammer <u>drainpipe/tube</u> into ground (1) set/measured amount of <u>water</u> from <u>bottle/jug</u> int <u>owatch/watch</u> to time how long it takes for the w	
	3 × 1 = (V	
		tion of line graph. <u>Plot 48, 30, 38</u> . Tick P twice. F st be on the centre square above the relevant nu	
(ii)			k complete line - 1
(ii)	3 correct	t plots + complete line = 2, 1 or 2 correct plots + t plots but no complete line = 1 max. (2)	
(ii) (iii)	3 correct 2 × 1 = (t plots but no complete line = 1 max.	



(c) Can refer to B and C in general or separately. Reserve 1 for H and W. Marks are for <u>HOW</u> and <u>WHY</u> (Tick H and tick W; max. 2 for each). Can match H/W any way.

Examples

HOW B and/or C different	WHY results differ
Vegetation could be taller (1)	Because less walkers (1)
More veg. cover/less bare ground (1)	Because further from car park (1)
Woodland path may be narrower (1)	Because trees restrict width for walkers (1)
Greater compaction/erosion (1)	Because walkers concentrated (1)
Less compaction/erosion (1)	Too far to walk to from car park (1)

2H + 1W or 1H + 2W = (3)

 (d) <u>Pedestrian count</u> to find out number of walkers. <u>Questionnaire</u> to find out why people came to the area/frequency of visiting/when they came. If "destination" must refer to place within the map area. <u>Different times of year</u> to see if results were affected by different weather/seasons/holiday patterns 3 × 1 = (3)

(e) First list OK with no qualification/elaboration. Ideas such as:

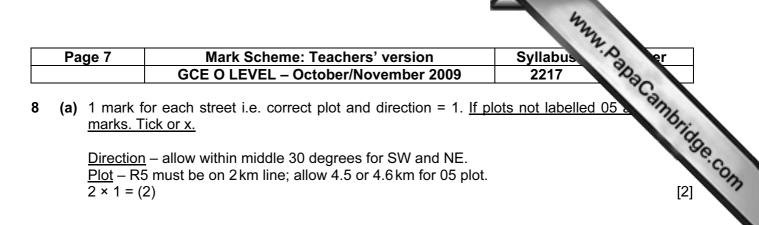
Restoration of footpath/create permanent paths (1) Create alternative/signposted paths (1) Improve drainage (1) Fence off areas/restrict access (1) Re-seed area around footpath/allow area to recover (1) Information and education centres (1) Build small/low bridges (1) Create nature reserves (1)

List below needs qualification/elaboration. Ideas such as: Rules <u>about how to behave</u>/charges <u>for car parking</u>/fines <u>for misdemeanours</u> (1) Use rangers <u>to manage where visitors go/the environment</u> (1) More bins <u>to reduce littering</u> (1)

Education <u>about the environment</u> (1)

[Total: 30]

[3]



Direction – allow within middle 30 degrees for SW and NE. Plot – R5 must be on 2 km line; allow 4.5 or 4.6 km for 05 plot. $2 \times 1 = (2)$

(b) (i)

Clear road with light parking Traffic moving freely, light parking Traffic moving freely, heavy parking Traffic congested, not moving freely

All correct for mark. Tick or x.

(ii) Ticks and/or x.

BEST = e.g. intermediate level of noise

WORST = e.g. High/loud/very noisy

Or similar descriptions. Look for a "step-up" in noise as go down the table. $2 \times 1 = (2)$

(iii) Do not allow what they have already done e.g. chosen sites/area of town to survey; prepared an env. survey sheet.

Examples

Whether to survey individually or in a group/pairs (1) How much time was available to do surveys (1) When would be best to do the surveys (1) Subjective nature of survey (1) Whether to base survey on whole street or measured section (1) Ground floor only/all floors land-use (1) How to identifying main land use (1) Safety refs (1 max.) $4 \times 1 = (4)$

[1]

[2]

[4]

Page 8		Mark Sche	Mark Scheme: Teachers' version		Syllabus A	er	
	9	GCE O LEVEL				2217	22
(c)	Que	estion is about designing ginary results. If do latter	a sheet allow max	that would x. 1 for Cate	work NOT	fill in a sheet with o below.	Cambrid
	Tick	k C for land-use categorie k S for a scoring system th k T for ref. to totalling the c	hat relates	s to 0–3	hree from li:	ist below.	as Cambridge
		vironmental Quality Survine of Street)			
	Litte		3	2	1	0	
		ads and pavements	3	2	1	0	
		es, shrubs, grass verges eet furniture	3 3 3	2 2	ו 1	0 0	
	Roa	ad signs	3	2	1	0	
	Trat		3	2	1	0	
	Nois	Se	3	2	1	0	
	Tot	al environmental quality	/ score				
	3 ×	1 = (3)					[3]
(a)	(i)	Plotting on dispersion gr M. 2P + 1M = (3)	aph. Piot	8 ano 17 (i	WO TICKS T	plus circling meulan	of 15 Tick [3]
	(ii)	Shopping, Residential, C)pen spac	æ, Industrial	. <u>All correct</u>	<u>t for mark</u>	[1]
	(iii)	Agree with Hypothesis Need it stating in differer			use does a	iffect the quality of en	vironment.
		Evidence: Different land					
		Median score				()	
		Shopping has $2 \times 1 = (2)$	s higrier e	INV. SCOLE III	an Indusu y	which is lowest (1)	[2]
	(iv)	•	viaher env	vironmenta	ecore bec	031160.	
		Shopping areas have higher environmental score because: Better looked after, jobs to improve environment					
		Need to attract customer	rs, therefo	ore needs to		'e	
		May be newer or re-deve Industrial areas have lo	•		score beca	21160.	
		Noise from heavy maching	nery/heav				
		Air pollution from factory		-		-	
		Old sites, maybe semi-de $3 \times 1 = (3)$	erellci				[3]
							r_1
(a)	(i)	Plotting on scatter graph	1 1/8.2/	10· / //17			

Page 9	Mark Scheme: Teachers' version	Syllabus Po er
	GCE O LEVEL – October/November 2009	2217 23
Cre <u>Ag</u> i sco	marks for accepting/rejecting H. Marks for evidence su edit data mark tick D if refer to two distances/env. score ree with the hypothesis that it does vary because the pres with high scores both close and far away from ween.	re is a range of environment
	<u>agree</u> : because there is no clear overall pattern that e distance from the town centre	nvironmental quality is affected
~ y	1 = (2)	[2]

Environmental quality reference sheet: Descriptions are vague (e.g. small amount of litter and much litter. No noise) Not all subject categories apply to each street (e.g. Open space street may have no street furniture) Individuals will score the same street differently because survey is subjective New categories needed e.g. type of pollution.

Four land use categories: Most streets contain a mixture

Most streets contain a mixture of different land uses Land use categories are wide (e.g. residential, open space) Not enough categories/more land-uses/not varied enough Open space may be farmland or derelict land or Industrial may be a modern distribution site or 19th century factory No commercial/offices No schools/leisure centres/ other specific uses/"Others" (1 max)

3 + 1 or 2 + 2 = (4)

[4]

[Total: 30]