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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

2217 GEOGRAPHY

2217/21

Paper 21 (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 May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus	er
	GCE O LEVEL – May/June 2010	2217	100-

Section A

1

(a) (i)	1985 or 2286 or 2287 or 2384	oridge
(ii)	216840/1	[1]
(iii)	Gliding Club Country Club Golf Course	[2]
(b) (i)	6–6.2km	[1]
(ii)	Embankments Curving route to follow contours	[2]
(c) (i)	Mine Name Mine Dump Quarry or Excavation Mining or Prospecting Trench	[3]
(ii)	In mining area On/next to cultivated land Around reservoir Along track/cut line/game trail Near river Around railway Along road Next to orchard/plantation Avoid highland At 10A Long Acres	[4]
(d) (i)	Near river Main area is east of river Adjacent to roads or tracks Within or next to cultivation	[2]
(ii)	Gradient almost flat Variable width/measurement of width Meandering Tributaries Weir	
	Dam	[4]
		[Total: 20]

						m	2
	Pa	ge 3	3	Mark Scheme: To	eachers' version	Syllabus	er
		J		GCE O LEVEL -		2217	No.
2	(a)	(i) (ii)		July, August, September	25		W. PapaCambridge
		(,	140, ;	rapir onowo avorago ngan	50		00
	(b)	(i)		ect temperature plot ect rainfall plot			[2]
		(ii)		az has lower temperatures			
				az has more rain			
			La P	az has rain in every month	but Arica has rain in	only 4 months	[2]
	(c)			ure – effect of altitude ica in rain shadow of Ande	s		[2]
							[Total: 8]
3	(a)	Ste (riv	ley ntle sl				[3]
	(b)	(i)	Woo gras indiv bush	dual trees (along river)			[3]
		/::\	Cto-	alono not quitable for sul	ivotion/building		
		(ii)		o slope not suitable for cult s reduce soil erosion/stabil			[2]
							[-]
							[Total: 8]

			May 1
	Page 4	Mark Scheme: Teachers' version	Syllabus
		GCE O LEVEL – May/June 2010	2217
4	Alor Alor Alor Mini	tral th of the central area ng railways ng roads ng river ing area rist area	Syllabus Par 2217 Annual Par 2217 [3]
	(b) (i)	2–2.2 (%)	[1]
		Migrants for work Less commitments so more mobile (Money to support) families elsewhere	[2]
	(iii)	Lack of females Males have families back home Females come to work not raise families/have children later Contraception more easily available in urban area	[2] [Total: 8]
5	(a) (i)	1 million (per year)	[1]
	(ii)	Western Europe Japan China	[1]
	(iii)	Large populations to buy cars Large labour force for car factories Rich populations can afford cars Good road networks Tradition of the industry in Western Europe and Japan China is an emerging industrial nation	[2]
	Rive Rive Rail Roa		
		er supply idential area – labour	[4]
			[Total: 8]

Page 5		Mark Scheme: Teachers' version	Syllabus
		GCE O LEVEL – May/June 2010	2217
6	6 (a) Correct data plot Line joined correctly		Cambridge
	(b) Steady 20 Increase Decrease		COM

> **(b)** Steady 2003–2004 Increase in 2005 Decrease in 2006... ... to near 2003/4 level

[3]

(c) War relief Natural disaster relief Influx of refugees Decrease after peak due to recovery of own supplies Steady decrease due to improvement in agriculture Decrease due to more urgent need elsewhere Decrease due to shortage in source country Variations in weather causing variations in harvest

[3]

[Total: 8]

			V .
Page 6	Mark Scheme: Teachers' version	Syllabus	'A Jer
	GCE O LEVEL – May/June 2010	2217	200

Section B

3Cambridge.com 7 (a) Consult tide tables/work at low tide/watch out for waves and currents Watch out for slippery rocks/uneven groyne Avoid working near foot of crumbling cliffs/wear hard hat Wear protective clothing/clothing that is easily visible Wear shoes to protect against sharp objects Use sunblock Take a mobile in case of emergency/to call for assistance Stay in group/pairs NOT: work under teacher supervision/don't go into sea 2@1 [2] (b) (i) 1 mark for each arrow linking pebble positions, i.e. direction of swash direction of backwash 1 mark max. if no arrow heads [2] (ii) Left box: Direction of prevailing wind Right box: Direction of longshore drift Both correct for 1 mark [1] (iii) Wind drives waves/wave move in direction of wind Waves come to the beach at an angle/oblique Swash carries material up the beach Backwash takes material back down the beach Process is repeated with each wave No credit for swash/backwash by themselves [3] (c) (i) Make them easy to see See how far or in what direction the pebbles had moved [1] (ii) 1 mark for plotting and shading bar graph: 8 Ignore shading 1 mark for accurate pebble size: 4cm (4 squares) [2] (iii) Longshore drift moves pebbles along the beach (NOT down beach) Most pebbles/specific number of pebbles moved between 20-40 metres Accept any two groups between 10-50 m Smaller pebbles moved further than larger pebbles Mode is 20-30 m [3] (d) (i) 1.5 (m) [1] (ii) 1 mark for each bar

[2]

5 m = 1.2; 10 m = 1.5

1 mark max. if lines drawn on bars

Page 7	Mark Scheme: Teachers' version	Syllabus	2 er
	GCE O LEVEL – May/June 2010	2217	No.
Nort Dist Gro Cred e.g.	othesis is correct/groynes do reduce movement of mat th side of groyne has bigger build up of material ance from top of groyne to beach material is less on no yne has less influence towards sea/more than 25–30 n dit comparative data for N & S of groyne to 1 mark max average measurement from top of groyne to beach = 2000	orth side n away from poin a. (not reserve)	t X Cambridge.com

No credit for explanation, e.g. trapping material

1 + 2[3]

(e) (i) Establish eye level height on each pole and mark it with a piece of visible tape/top of pole

> Use tape measure to measure 10 m/distance between poles Put the two ranging poles at 10 m intervals across beach Hold the clinometer at arm's length and sight the visible marker Read the angle of deviation from the horizontal/measure the angle with the clinometer

Record the angle on a recording sheet

Repeat every 10 m along/up/down/across beach

Take measurements on north and south sides of groyne

[4]

(ii) Steeper profile on the north side of the groyne More uneven profile on the north side of the groyne North side of groyne is higher Answer must be comparative

NOT more material on north side of groyne

2@1 [2]

(iii) Hypothesis is true/groynes did/do affect the beach profile Accept 'Yes' + hypothesis

NOT 'Yes' by itself [1]

(f) Do more profile measurements either side of the groyne/every 5 m

Do more profile measurements at different sites along beach/at other groynes on this beach/at sites where there are no groynes on this beach

NOT on other beaches

Test if the results would be the same at different times of the year/days/conditions

Check accuracy of measurements for angle of profile/distance between ranging poles/from top of groyne to beach (What)

Check accuracy of measurements by doing more often and calculating average/more people involved/same people do all measurements (How)

1 'fallback' mark for check accuracy of measuring/check if measuring done correctly - if no other detail

NOT check pebbles data

[3]

[Total: 30]

Page 8		3	Mark Scheme: Teachers' version	Syllabus er
			GCE O LEVEL – May/June 2010	2217
(a)	Pea His Tov Inde	ak lan toric t vn ha oor st T: hi	nction/cross-roads ad value point building or site e.g. church or square all hopping centre/mall ghest buildings/most shops/most businesses/most pe ear park	Syllabus 2217 edestrians/bus station/outdoor
	3 @	0 1		[3]
(b)) (i)	Tota	al = 17	[1]
	(ii)	Can Syst Cove	antage: be measured accurately on a map tematic coverage of CBD area – points at 100, 200, 30 ers all directions I distributed (NOT wide area)	0 m
		Diffic Site Dista	advantage: cult to measure accurately on a road may be inappropriate to use for survey ances between sites are too large so few survey sites as between four roads are not covered by survey	
		No c	credit for opposites	
		1 + 1	1	[2]
	(iii)		see if there is any variation during the day notude factors which affect specific times e.g. going to	work/lunch time
		ТОИ	Γ: wider variety of results/average results/accurate resu	ults
		2 @	1	[2]
(c)) (i)		ding of area with more than 150 pedestrians – need T line shading)	ds shading in all 4 quadrants [1]
	(ii)		ne plotted on Fig. 12 tract 1 mark for each error	[2]
	(iii)	But to	rmation does support the hypothesis/numbers decreas the rate of decrease varies in different directions otals decrease away from CBD of comparative figures from Fig. 8 to support conclusion	
	(iv)	High High High High	n number/lot of pedestrians/numbers increase near car n number/lot of pedestrians/numbers increase near bus n number/lot of pedestrians/numbers increase near sho n number/lot of pedestrians numbers increase near tow mportant buildings on Bluebell St so less pedestrians	park s station opping centre
		_		

[2]

Do not accept: less shops/more shops

Page 9	Mark Scheme: Teachers' version	Syllabus	er
	GCE O LEVEL – May/June 2010	2217	20

(v) Increase in number/more pedestrians generally at car park/at bus station/at shop Increase in number/more pedestrians along Albion St/near market Increase in number/more pedestrians particularly during 08.00, 10.30 and 13.00 co. between 08.00 and 13.00/when market is open

NOT 'lot of people'

(d) (i) 1 mark for name of sampling method

2 marks for describing method:

Stratified

Appropriate gender balance

Appropriate age balance

Systematic

Use a system of sampling

Asking every tenth person

Random

No pattern to sampling

Random number tables

(ii) Attractions:

Accessible by bus/train/public transport

Car parking space

Indoor shopping

High level of security/safe

Facilities – toilets/play area/disabled provision

Pleasant environment – landscaping/displays

Pedestrianised

Everything within walking distance

Entertainment/cinema/theatre/museum/coffee shops

Place to meet friends

NOT: shops/services/cheaper prices/jobs/clean area

Concerns:

Difficulty of parking/narrow roads

Begging/harassment

Lack of facilities - toilets/rest areas

Too many down-market shops affect the image/lots of empty shops

Groups of youths/crime/violence/drugs/insecure

Dangers from traffic in busy area/congestion

Air pollution/noise/dangerous needs qualifying

No credit for opposites

2 + 2

[Total: 25]

[3]

[4]

Page 10	Mark Scheme: Teachers' version	Syllabus
	GCE O LEVEL – May/June 2010	2217
	ohs: d type of graph + purpose for each mark, such as: chart of attractions	Cambride
pie o	chart of concerns led bar graph of concerns	Se. COM
bar o	chart of age groups chart of attractions for females	
nie c	chart of attractions for males	

(e) Graphs:

Need type of graph + purpose for each mark, such as: pie chart of attractions pie chart of concerns divided bar graph of concerns bar chart of age groups pie chart of attractions for females pie chart of attractions for males bar chart of opinions (attractions + concerns)

Analysis:

Rank results

Pick out the top three/top one/what attracts or concerns most Identify differences in results between genders Identify differences in results between age groups Look for patterns/comparisons (e.g. between male and female) Compare results with secondary data

Recommendations: What people like

What concerned people

Reserve 1 mark for each of the three sub-sections No transfer of marks between headings (mark under headings)

[5]

[Total: 30]