MARK SCHEME for the October/November 2013 series

0460 GEOGRAPHY

0460/43

Paper 4 (Alternative to Coursework), maximum raw mark 60

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.



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1 (a) (i)



All 3 correct = 2 marks, 1 or 2 correct = 1 mark

- (ii) Shop owners losing money/bankrupt/went out of business Competition from other shopping centres/too many shops selling same goods High rents Decrease in number of customers/not enough customers/lack of demand New shopping centre/still looking for new business Undergoing renovation
 2 @ 1 [2]
- (iii) People travel further to buy comparison goods than convenience (low order) goods
 Comparison goods usually cost more than convenience goods
 If more than 2 answers deduct 1 mark for each incorrect answer
 2 @ 1 [2]
- (b) (i) Work in pairs, not alone Don't block pavement/entrance to shops Be polite to interviewees Accept that people won't want to answer questions/too busy/in a hurry Ask a range of people/get a representative sample of age or gender/distribute at random Choose a time when there are plenty of people shopping Ask people leaving different shops
 - (ii) Hypothesis is **true**/partially true people buy different types of goods 1 mark reserve

CBD contains more comparison shops/local shopping centre contains more convenience shops. Allow 'only' with figures People go to CBD for comparison goods/to local shopping centre for convenience goods OR individual purchases. Allow 'only' with figures

People buy some goods in both centres e.g. food/convenience goods

Credit use of paired data which compares the types of shops (Table 1) or goods purchased (Table 2) to 2 marks max e.g. convenience goods – 15 bought in CBD, 27 bought in local shops 47 comparison shops in CBD & 3 in local shopping centre

Hypothesis conclusion is incorrect/false no credit

[4]

[2]

(c) (i) Completion of histogram – less than 10 minutes (21 – Larco Ave and 25 – Enrique Palacios). Ignore shading 2 @ 1 [2]

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(ii)	1 ma	pletion of pie chart – between 2 and 6 days = 50%, I irk for correct position of line, 1 mark for shading nark for line if plotted wrong way round, but credit sh		weeks = 22	% [2]
(iii)	'Long 'Freq If an max mark	rall hypothesis is not true/partially true – 1 mark resper' hypothesis is partially true/not true quency' hypothesis is not true swer as two separate sections consider each hyp for hypothesis. If both hypothesis conclusions ag as max. If one conclusion agrees with mark scheme agree with mark scheme go to 2 marks max.	othesis separate ree with mark s	cheme go t	o 4
	Most	people do not take longer to get to Larco Ave/CBD/	little difference		
		ble go more frequently to Enrique Palacios/local shop le go less frequently to CBD	pping centre/		
		lit use of paired % data which compares the two cen ark maximum	tres to		
	Нурс	othesis conclusion is true/correct no credit			[4]
(d) (i)	Cent More	e/larger percentage walked to Enrique Palacios/local re OR two correct statistics (28 and 8) e/larger percentage went by car to Larco Avenue/CB and 36)		t statistics	
		e go by car than walk to CBD OR two stats (36 and 8 e walk than go by car to local shops (28 and 22)	3)		[2]
(ii)	Woul false	Id not change the conclusion/conclusion would still b	be valid/hypothes	sis would stil	l be
	Help	s to provide an explanation e.g. such as quicker t er to walk than go by car/method of transport will affe		than walk/ta	kes [2]
(iii)	Likely What Avail Avail Weat Leve shop Traff	ance to travel/how long it will take to travel to shoppin y duration of visit/how long shoppers stay t/how much they are buying/what they are buying/typ ability of regular bus service/public transport/taxi ability/cost of car parking ther conditions/weather forecast/more likely to travel of car ownership/do shoppers own a car/can shopper oper afford petrol or bus fare ic congestion/amount of traffic much time they have	pe of shop they v I by car if raining		can
		of crime/safer to drive/no pavements to walk on		3@1	[3]
Div	ide cit /ise ca	th map/pictogram y/draw map to show different districts/show where g ategories for choropleth shading/symbols fferent districts according to key	roups of people	live	
Sha					
		key of categories			[3]

	Page 4		Mark Scheme	Syllabus	Paper	
		-	IGCSE – October/November 2013	0460	43	
2	 (a) Keep away from base of cliff/overhang Don't stand on edge of cliff Check tide times before setting off/watch for incoming tide/do fieldwork at low tide Avoid slippery rocks/sharp rocks Measure waves from safe position/don't go into sea Take mobile/cell phone/whistle Work in groups/pairs/not alone Tell teacher/adult where you are going Suitable clothes/protective clothes/footwear/sunblock 					
	(b) (i)	Put p Ensu Sam Use Hold Sigh Repe	te marker poles along rope/transect line poles at each break of slope ure they are vertical ne length of pole above surface at each point a clinometer to measure angle/read angle d clinometer next to top/at agreed height on marke at other marker pole at top/agreed height eat along transect/different places up beach sure distance between marker poles	r pole/eye level	[4]	
	sł		a Bassa (sandy) is wider or longer or larger/Cal ter or smaller a Bassa is 35m and Cala Blanca is 17m	a Blanca (pebbles)	is narrower or [1]	
	(iii)	• •	othesis is true /pebble beach (Cala Blanca) has st ark reserve	eeper profile		
			a Blanca is narrower beach than Cala Bassa but aca goes to greater height (elevation)	both go to same he	ight (elevation)/	
		Cala	a Blanca increases 5–5.5 m in 16.9–17 m and Cala	Bassa increases 5	m in 34.5–35 m	
		1 ma	ark for paired gradient measurements (Blanca 1 ir	i 3, Bassa 1 in 7)		
			ark for paired angle measurements, these could b beach	e at individual point	s or average for	
		Нуро	othesis conclusion is false no credit		[4]	
	(c) (i)	Coui Do n	quadrat on ground/beach/throw quadrat nt the number of squares with different types of be nore than one measurement and calculate averag ask in each section of beach profile		[3]	
	(ii)	be cl Som Estir Mea	sification as sand, shingle, pebbles or cobble is s lassified differently at different sites he types of material look similar mating the percentages may lead to inaccuracy/in suring individual beach material would take a lot of be boulder/bare rock/seaweed/driftwood/litter in o	consistency of time	[1]	

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(iii)	Completion of divided bar graph: shingle – 48, pebble – 40, cobble – 12 2 marks for dividing lines 1 mark for shading – must be in correct order				[3]	
(iv)	Hypothesis is true for Cala Blanca beach/larger beach material away from sea – 1 reserve				nark	
	1 mark for data which refers to pebbles or cobbles or compares two profiles – need two percentages and locations e.g. cobble increases from A – B 0% to H – I 20% OR across whole beach					
	Нуро	Hypothesis conclusion is false/partially true no credit				
	Нуро	othesis is not true for Cala Bassa beach – 1 mark i	reserve			
	1 mark for data which refers to sand or shingle or compares two profiles – percentages and locations e.g. over 80% sand in all sections only sand/100% sand in A–B and E–F				eed	
	Нуро	othesis conclusion is true/partially true no credit		2 + 2	[4]	
(v)	Powerful swash throws all material up the beach/material thrown up beach during storn Less powerful backwash can only carry the smaller material down the beach Material from cliff at back of beach is larger				rms [2]	
(d) (i)	Ligh Groy Rate More vice	sible hypothesis: ter beach material is moved more quickly by longsh nes on the beach interrupt the movement of longsh of longshore drift is affected by wave height/wave e longshore drift on a sandy beach/Cala Bassa that versa	ore drift frequency n a pebble beach/	'Cala Blanc	a or	
		ere more longshore drift takes place there is smaller gshore drift occurs in direction of prevailing wind	material			
		t include 'longshore drift' be evidence that longshore drift has taken place			[1]	
(ii)		cription must link to chosen hypothesis. If chosen h o 2 marks max if linked to longshore drift.	nypothesis is not c	redited in (I	b)(i)	
	Pain Grou Leav Find	sible method first hypothesis: t 50 pebbles of varying sizes up them in the wave swash/backwash zone ve them for period of time the pebbles and measure distance from starting po sure long axis of pebble	vint			
	Crec	dit other ways to measure longshore drift, if appropri	ate.		[4]	
				[Total:	30]	