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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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.

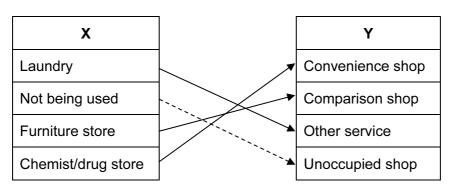
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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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Page 2		Mark Scheme Syllabu		ous r
	IGCSE –	October/November 2		0,
1 (a) (i)		_		
. , , ,	Х		Y	ambridge
	Laundry	_	Convenience shop	Se.Co.
	Not being used		Comparison shop	13
		1		



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

[2]

(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] 2@1

(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

[2] 2@1

(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]

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

					mn		
Page 3			Mark Scheme		Syllabus	0	
		IGCSE -	October/Novem	per 2013	0460	80	
(ii)	1 ma	ark for correct po	art – between 2 ar sition of line, 1 ma otted wrong way ro	rk for shading	between 1 and 4 we	Dana Can	bridge
(iii)	Overall hypothesis is not true/partially true – 1 mark reserve 'Longer' hypothesis is partially true/not true 'Frequency' hypothesis is not true If answer as two separate sections consider each hypothesis separately and credit max for hypothesis. If both hypothesis conclusions agree with mark scheme go to a marks max. If one conclusion agrees with mark scheme but the other conclusion does not agree with mark scheme go to 2 marks max. Most people do not take longer to get to Larco Ave/CBD/little difference				dit 1 to 4		
	People go more frequently to Enrique Palacios/local shopping centre/ people go less frequently to CBD Credit use of paired % data which compares the two centres to 1 mark maximum						
	Нуро	othesis conclusio	on is true/correct n	o credit			[4]
(d) (i)	Cent More	tre OR two corre	ge walked to Enric ct statistics (28 an ge went by car to	d 8)	al shopping BD OR two correct s	tatistics	
			walk to CBD OR to car to local shop		8)		[2]
(ii)	false Help	e es to provide an		such as quicker	be valid/hypothesis to travel by car tha fect time taken		
(iii)	Likel Wha Avai Wea Leve shop Traff How	ly duration of visit ht/how much they lability of regular lability/cost of ca hther conditions/visit of car ownersh oper afford petrol fic congestion/and much time they	bus service/public r parking veather forecast/m hip/do shoppers of or bus fare hount of traffic	ers stay hey are buying/ty c transport/taxi nore likely to trave wn a car/can sho	ype of shop they visi		/can

(e) Choropleth map/pictogram

Divide city/draw map to show different districts/show where groups of people live Devise categories for choropleth shading/symbols Shade different districts according to key Include a key of categories

Risk of crime/safer to drive/no pavements to walk on

[Total: 30]

3 @ 1

[3]

[3]

Page 4		<u> </u>	Mark Scheme	Syllabus			
		.90		IGCSE – October/November 2013	0460		
2	(a)	Dor Che Avo Mea Tak Wo Tell	n't sta eck tid oid slip asure ke mo rk in d I teac	ray from base of cliff/overhang and on edge of cliff de times before setting off/watch for incoming tide/doppery rocks/sharp rocks waves from safe position/don't go into sea bile/cell phone/whistle groups/pairs/not alone her/adult where you are going clothes/protective clothes/footwear/sunblock	Syllabus 0460 o fieldwork at low tide 3 @ 1 [3]		
	(b)	(i)	Put Ensi Sam Use Hold Sigh Rep	the marker poles along rope/transect line poles at each break of slope ure they are vertical the length of pole above surface at each point a clinometer to measure angle/read angle of clinometer next to top/at agreed height on marker put other marker pole at top/agreed height eat along transect/different places up beach usure distance between marker poles	pole/eye level [4]		
		(ii)	Cala	a Bassa (sandy) is wider or longer or larger/Cala	Blanca (pebbles) is narrower or		
		` ,	shor	ter or smaller a Bassa is 35 m and Cala Blanca is 17 m	[1]		
		(iii)		othesis is true /pebble beach (Cala Blanca) has stee ark reserve	per profile		
			Cala Blan	th go to same height (elevation)/			
			Cala 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 in 3	, Bassa 1 in 7)		
				ark for paired angle measurements, these could be a beach	at individual points or average for		
			Нур	othesis conclusion is false no credit	[4]		
	(c)	(i)	Cou Do r	quadrat on ground/beach/throw quadrat nt the number of squares with different types of bea more than one measurement and calculate average ask in each section of beach profile	ch material [3]		
		(ii)	be c Som Estir Mea	sification as sand, shingle, pebbles or cobble is sub- lassified differently at different sites he types of material look similar mating the percentages may lead to inaccuracy/inco suring individual beach material would take a lot of to be boulder/bare rock/seaweed/driftwood/litter in qua	nsistency time		

			2.
Page 5	Mark Scheme	Syllabus	.0
	IGCSE – October/November 2013	0460	100-
			~

(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

(iv) Hypothesis is true for Cala Blanca beach/larger beach material away from sea – 1 mark reserve

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

Hypothesis conclusion is false/partially true no credit

Hypothesis is **not true** for **Cala Bassa** beach – 1 mark reserve

1 mark for data which refers to sand or shingle or compares two profiles – need percentages and locations

e.g. over 80% sand in all sections only sand/100% sand in A–B and E–F

Hypothesis conclusion is true/partially true no credit

2 + 2 [4]

- (v) Powerful swash throws all material up the beach/material thrown up beach during storms
 Less powerful backwash can only carry the smaller material down the beach
 Material from cliff at back of beach is larger

 [2]
- (d) (i) Possible hypothesis:

Lighter beach material is moved more quickly by longshore drift

Groynes on the beach interrupt the movement of longshore drift

Rate of longshore drift is affected by wave height/wave frequency

More longshore drift on a sandy beach/Cala Bassa than a pebble beach/Cala Blanca or vice versa

Where more longshore drift takes place there is smaller material

Longshore drift occurs in direction of prevailing wind

Must include 'longshore drift'

Can be evidence that longshore drift has taken place

[1]

(ii) Description must link to chosen hypothesis. If chosen hypothesis is not credited in (b)(i) go to 2 marks max if linked to longshore drift.

Possible method first hypothesis:

Paint 50 pebbles of varying sizes

Group them in the wave swash/backwash zone

Leave them for period of time

Find the pebbles and measure distance from starting point

Measure long axis of pebble

Credit other ways to measure longshore drift, if appropriate.

[4]

[Total: 30]