UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper

for the guidance of teachers

0460 GEOGRAPHY

0460/43 Paper 43 (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 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		2	Mark Scheme: Teachers' version Syllabus		
			IGCSE – May/June 2010	0460	43
		Q1 i Qs 2 Q4 i Q5 i Q6 i Q7 i Fina No i Will Diffi No i Will Diffi No i Ullog Ans NO ⁻ NO ⁻ NO ⁻ NO ⁻ NO ⁻ NO ⁻ Cas 2 Cas 2 Ca	oduction gives no context to questionnaire is too vague – need town/city/country or is too perso 2 & 3 are irrelevant to hypotheses repeats idea of Q1/answers wont be accurate is a closed question and gives no extra information is negative is personal al comment is abrupt/no thanks/informal/impolite/unf multiple choice alternatives/tick boxes have to write down full answers/no space to write a icult to analyse/collate results question about activities which people did/key quest gical order of questions/age question is last wers don't need to refer to specific questions in que T question is unacceptable – must say why T questionnaire is too short oduction explains who is doing questionnaire & why/ itive introduction – won't take up much time 1, 2 & 3 ask for precise/quick responses/choices for 4 & 5 are open/positive/ask for opinions inks at the end nder information is recorded without questioning estions are relevant to hypotheses wers are easy to collate/graph n credit opposites to (i) wers don't need to refer to specific questions in que	riendly nswers ion for hypothesis stionnaire friendly people to tick	1 [3 @ 1 = :
		NO	T clear/easy to understand – must say why		[2 @ 1 =:
	(iii)	Red	ple to organise/clear rationale luces bias in sample/fair test pondents cannot influence each other/discuss answ	vers	[2 @ 1 = :
	(iv)	In m	s of people to ask/many people park there hiddle of national park so more likely to be used by to ept negative comment about other locations	ourists	[
	(v)	activ	y: People would be better equipped to answer que vities/what they liked ited until people had enjoyed the day's activities	estions about time	spent in par
		que Peo	advantage: People are tired at end of a busy day stions ople in a rush to set off for home		ered to answ
		-	/ not get enough answers and too late to do anything only question people in cars/miss out people who d	-	[1 + 1 =

Will only question people in cars/miss out people who don't come by car [1 + 1 = 2]

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Page	3		Mark Scheme: Teachers' version	www.dynamicpap	Paper
ruge			IGCSE – May/June 2010	0460	43
	ii)	 Bar graph completion – need dividing line & labels (Yes/No) Allow tolerance from 72–75 or 22–28 Pie graph – completion 1 mark (4 or 5 days, longer than 5 days) Shading/labels in key 1 mark Allow 1% tolerance 			[1
(iii	ii)	Inse 5 in 11 ir	ert figures for sightseeing: 51–65 age group column n total column n correct for 1 mark		[1
 (iv) Hypothesis is partially/generally true/Yes/age does influence activities – reserve man Physical/lively/active activities are more popular with younger people Such as cycling/mountain biking/horse riding/running/jogging Less physical/leisurely/relaxed activities are more popular with older people Such as sightseeing/driving/visiting historic buildings/shopping/bird watching Walking is popular with all age groups, doesn't support hypothesis/exception Some activities are popular only with specific age groups – climbing: 21–50/wa (over 5 km) not with over 65 Credit exception such as 2 people under 20 visit historic buildings No data mark NOT 'high risk' activities 					
(c) (i			Easy to get to		[4
(c) (i		2	Scenery Opportunity to do my favourite activity/Peace	& quiet	[3 @ 1 = 3
(ii	 (ii) Improvements: New walking routes signposted: visitors will not get lost/easier to explore More car parks: not waste time looking for a parking space/not have to walk as to need to use public transport/safe and secure NOT more visitors Better toilet facilities: improved visitor comfort/more hygienic/less distance to facil More cafes and refreshment facilities: improved visitor comfort/will not go hungry/ drink/relax/don't have to bring own food/don't have to leave park to eat More cycling horse riding routes: planned route to follow/away from traffic More information boards: visitors can learn about the area 				ce to facilities
			۲ stop people getting lost <i>roved footpath surfaces</i> : easier/safer to walk c	on/less muddy/cleaner	[2 @ 1 = 2
(iii		Beca activ Visit Visit Mos Man 1 ma Resj	true/most visitors do have a positive opinion - ause; visitors gave examples of activities vities fors said what they liked (Table 4) – e.g. peace fors gave positive ideas for improvements (Tal to visitors had visited more than once and return by visitors were staying more than one day (Tal ark maximum on each Table ponses only based on one day in one n stion: Do you like/have a positive view of natio	(Table 3)/opportunity t e & quiet ble 5) / no serious proble rned (Table 1) able 2) ational park/visitors no	em/complaint

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	Page 4					Paper 43	
	(d)	IGCSE – May/June 2010 0460 (i) Where do you live?/nationality Where do you come from? How far have you travelled to get to the national park? How long have you spent travelling to the park?				i	43 [1]
		(ii)	Map Type 1 ma	uping data/categorise/rea / type of graph – bar/pie e of map – choropleth/do ark for each of above ide ept presentation ideas, e	e/divided rectangle/pic of distribution/flow lines eas if appropriate to qu	s/desire lines estion in (i)	
			NOT	questionnaire/tick boxe	es		[3]
							[Total: 30]
2	(a)	 Don't do fieldwork/check conditions if river is in flood/deep/fast-flowing Wear strong shoes/wellingtons to protect feet Don't do fieldwork alone – at least two preferably three people/group Wear waterproofs to keep warm/protective clothing/light clothes which will d Keep a look out for dangerous animals Don't do fieldwork if river is badly polluted/don't drink water/Veil's disease Tell someone where you are going/take a mobile phone for emergency Complete in daylight/before it gets dark May be slippery rocks/bank 				people/group It clothes which will dry rater/Veil's disease	
		NO	T dor	't run around/push each	other in/swim in river		[3 @ 1 = 3]
	(b)	(i)	Time Repe	sure section along river floats over measured s eat timing exercise at po ulate surface velocity:		river	[3]
		(ii)	Ensu Take May Lowe Mark	rule/ruler on river bed - ure rule is upright/vertica e reading of water surfact suggest string & weigh er string to river bed (/ observe water level o sure wet section	al ce on rule/measure pa & tape measure	rt of stick which is wet	
				repetition of measuring redit for equipment – m			[3]
		(iii)	Velo Alter velo poin Velo Crec betw	city is greater near the c city decreases towards native to above ideas: city across river/velocity t 1 to point 3 – NOT wor city is greater where rive lit 1 mark (not reserve) reen them pypothesis mark	the inner bank/sample velocity varies at d increases from sampl ding of hypothesis er is deeper/least when	point 1 ifferent points/there are e re river is shallow	
				,	© UCLES 2010		[-]

			www.dynamicpapers.o			
Pa	ge 5		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – May/June 2010	0460	43	
(c)	 Only measuring surface velocity Measurements could be affected by external influences such as floats get stuck on vegetation strong wind may interfere with movement of float Route taken by floats is unpredictable Floats all move into main current of river, so not really testing velocity across a mean Too few sampling points Only taking one measurement at each sampling point/need to do more Random positioning of sample points/not equal distances apart NOT human error weaknesses such as inaccurate timing/distance measurement [3					
(d)	(i)	Mus Stan Prop Prop Reco Take	flow meter on the bed of river/into river t be held vertically nd downstream or to the side of the flowmeter beller must be facing upstream beller spins/moves ord digital reading/display shows velocity e several readings and calculate average T take measurements at different points in river		[3]	
	(ii)		npletion of 20cm per second isoline us 1 mark for each error		[2]	
	(iii)	Shad	ding on diagram the area where velocity is greater t	than 40cm per sec		
	(iv)	Supp But acro Here Supp Ther	ee/partly agree with hypothesis – reserve mark porting data – two current measurements: e.g. 40-3 where current is strongest there is exception/hypo ass meander the greatest velocity is at about 1/3 of depth/just u porting data – two current measurements: e.g. 60-6 n velocity does decrease below 1/3 of depth w two marks for comparative figures (not reserve)	othesis doesn't ap nder water surface	ply everywhere	
	(v)	Surfa Velo Grea	ace velocity is affected by friction with atmosphere ocity near bed/banks of channel reduced by friction v atest velocity is where current is strongest/river is de			
(e)	 Similarities: Greater velocity slightly beneath surface/at surface Greater velocity where river is deeper Velocity reduces near bed/banks Differences: Velocity faster in middle of channel on a straight section Velocity decreases more evenly towards bed/banks on straight section 					
	1 m	ark re	eserve for similarity/difference		[4]	
					[Total: 30]	

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