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	Paper	
			IGCSE – May/June 2010	0460	43	
1	(a) (i	Q1 Qs Q4 Q5 Q6 Q7 Fina No Will Diffi No Ullog Ans	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/unfi multiple choice alternatives/tick boxes have to write down full answers/no space to write ar cult to analyse/collate results question about activities which people did/key questi jical order of questions/age question is last wers don't need to refer to specific questions in quest I question is unacceptable – must say why	riendly nswers ion for hypothesis		
		NO	Γ questionnaire is too short		[3 @ 1 = 3]	
	(ii	Pos Qs Qs Tha Ger Que Ans Can	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 nks at the end inder information is recorded without questioning estions are relevant to hypotheses wers are easy to collate/graph in credit opposites to (i) wers don't need to refer to specific questions in question	people to tick		
		NO	Γ clear/easy to understand – must say why		[2@1=2]	
	(iii	Red	ple to organise/clear rationale luces bias in sample/fair test pondents cannot influence each other/discuss answ	ers	[2 @ 1 = 2]	
	(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	[1]	
(v		acti	y: People would be better equipped to answer que vities/what they liked ted until people had enjoyed the day's activities			
		Disadvantage: People are tired at end of a busy day/cannot be bothered to questions People in a rush to set off for home May not get enough answers and too late to do anything about it Will only question people in cars/miss out people who don't come by car [1		red to answer [1 + 1 = 2]		

Page 3	3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0460	43
(b) (i)		graph completion – need dividing line & labels (Yes w tolerance from 72–75 or 22–28	/No)	[1]
(ii)	Sha	graph – completion 1 mark (4 or 5 days, longer than ding/labels in key 1 mark w 1% tolerance	ı 5 days)	
(iii)	5 in 11 ii	ert figures for sightseeing: 51–65 age group column n total column n correct for 1 mark		[1]
(iv)	Phy Suc Less Suc Wal Som (ove Cree	othesis is partially/generally true/Yes/age does influ sical/lively/active activities are more popular with yo h as cycling/mountain biking/horse riding/running/jog s physical/leisurely/relaxed activities are more popul h as sightseeing/driving/visiting historic buildings/sh king is popular with all age groups, doesn't support he activities are popular only with specific age gr of 5 km) not with over 65 dit exception such as 2 people under 20 visit historic	unger people gging lar with older peop opping/bird watchi hypothesis/except roups – climbing:	le ng ion
		data mark Γ 'high risk' activities		[4]
(c) (i)	1 2 3	Easy to get to Scenery Opportunity to do my favourite activity/Peace & quie	ət	[3 @ 1 = 3]
(ii)	New Mor NOT Bett Mor drin	rovements: <i>v walking routes signposted</i> : visitors will not get lost/ <i>e car parks</i> : not waste time looking for a parking s d to use public transport/safe and secure T more visitors <i>er toilet facilities</i> : improved visitor comfort/more hy <i>e cafes and refreshment facilities</i> : improved visitor k/relax/don't have to bring own food/don't have to le <i>e cycling horse riding routes</i> : planned route to follow <i>e information boards</i> : visitors can learn about the ar	ygienic/less distan comfort/will not go ave park to eat //away from traffic	ce to facilities o hungry/rest &
		Γ stop people getting lost roved footpath surfaces: easier/safer to walk on/less	s muddy/cleaner	[2 @ 1 = 2]
(iii)	Bec activ Visit Visit Mos Mar 1 ma	true/most visitors do have a positive opinion – reservause; visitors gave examples of activities (Table vities cors said what they liked (Table 4) – e.g. peace & que cors gave positive ideas for improvements (Table 5) it visitors had visited more than once and returned (by visitors were staying more than one day (Table 2) ark maximum on each Table ponses only based on one day in one national stion: Do you like/have a positive view of national parts	e 3)/opportunity t liet / no serious proble Table 1) al park/visitors no	em/complaint

Page 4		Mark Scheme: Teachers' version IGCSE – May/June 2010	Syllabus 0460	Paper 43	
(d) (i)	Whe How	re do you live?/nationali re do you come from?	ity o get to the national park?		
(ii)	Map Type 1 ma	e of map – choropleth/do ark for each of above ide	sults table tally chart e/divided rectangle/pictog ot distribution/flow lines/de eas if appropriate to quest even if question in (i) is wr	esire lines tion in (i)	
	ΝΟΤ	questionnaire/tick boxe	es		[3]
					[Total: 30]
We Do We Ke Do Tel Co	ear str n't do ear wa ep a lo n't do Il som mpleto	ong shoes/wellingtons to fieldwork alone – at leas terproofs to keep warm/ ook out for dangerous ar fieldwork if river is badly	st two preferably three pe /protective clothing/light cl nimals / polluted/don't drink wate ng/take a mobile phone fo	cople/group lothes which will dry er/Veil's disease	
NC	DT dor	i't run around/push each	n other in/swim in river		[3 @ 1 = 3]
(b) (i)	Time Rep	sure section along river e floats over measured s eat timing exercise at po sulate surface velocity:	section bints 1, 2 and 3 across rive <u>distance</u> time	er	[3]
(ii)	Ensi	t rule/ruler on river bed - ure rule is upright/vertica e reading of water surfac		of stick which is wet	
	Low Marl	suggest string & weigh er string to river bed < / observe water level o sure wet section			
		repetition of measuring redit for equipment – m			[3]
(iii)	Velo	city decreases towards	outer bank of the meande the inner bank/sample po : velocity varies at diffe	pint 1	re variations in

Measur	IGCSE – May/June 2010 easuring surface velocity ements could be affected by external influences	0460	43			
Measur						
 strong Route t Floats a Too fev Only ta Randor 	ats get stuck on vegetation ong wind may interfere with movement of float aken by floats is unpredictable all move into main current of river, so not really te v sampling points king one measurement at each sampling point/ne n positioning of sample points/not equal distance	esting velocity across a m eed to do more s apart				
	flow meter on the bed of river/into river					
Mu Sta Pro Pro Re	st be held vertically nd downstream or to the side of the flowmeter peller must be facing upstream peller spins/moves cord digital reading/display shows velocity ke several readings and calculate average					
NC	T take measurements at different points in river		[
	mpletion of 20cm per second isoline hus 1 mark for each error		[
(iii) Sh	ading on diagram the area where velocity is grea	ter than 40cm per second	d			
Su Bu acr He Su Th	ree/partly agree with hypothesis – reserve mark oporting data – two current measurements: e.g. 4 where current is strongest there is exception/h oss meander re the greatest velocity is at about 1/3 of depth/ju oporting data – two current measurements: e.g. 6 en velocity does decrease below 1/3 of depth ow two marks for comparative figures (not reserve	nypothesis doesn't apply st under water surface 60-68-70 cm per second	[,] everywhe			
(v) Su Ve	face velocity is affected by friction with atmosphe ocity near bed/banks of channel reduced by fricti eatest velocity is where current is strongest/river i	ere ion with channel				
NC	T 'velocity is greater on outside'					
Greater	Similarities: Greater velocity slightly beneath surface/at surface Greater velocity where river is deeper Velocity reduces near bed/banks					
volooit						
Differer Velocity	ices: v faster in middle of channel on a straight section v decreases more evenly towards bed/banks on s					

[Total: 30]