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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.

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[1 + 1 = 2]

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	Page 2			Mark Scheme: Teachers' version	Syllabus	3
				IGCSE – May/June 2010	0460	Par
1	(a) (i) Introduction gives no context to questionnaire Q1 is too vague – need town/city/country or is too personal Qs 2 & 3 are irrelevant to hypotheses Q4 repeats idea of Q1/answers wont be accurate Q5 is a closed question and gives no extra information Q6 is negative Q7 is personal Final comment is abrupt/no thanks/informal/impolite/unfriendly No multiple choice alternatives/tick boxes Will have to write down full answers/no space to write answers Difficult to analyse/collate results No question about activities which people did/key question for hypothesis Illogical order of questions/age question is last Answers don't need to refer to specific questions in questionnaire					Natrapapers Dana Cambridge
				「question is unacceptable – must say why questionnaire is too short		[3 @ 1 = 3]
		(ii)	Posi Qs 1 Qs 2 Thai Gen Que Ansi Can	eduction explains who is doing questionnaire & why/eitive 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 1, 2 & 3 ask for precise/quick responses/choices for 5 are open/positive/ask for opinions 1, 2 & 3 ask for precise/quick responses/choices for 1, 2 & 3 ask for precise/quick responses/quick responses/quick responses/quick responses/quick responses/quick responses/q	people to tick	
			ПОИ	clear/easy to understand – must say why		[2 @ 1 =2]
		(iii)	Red	ple to organise/clear rationale uces bias in sample/fair test pondents cannot influence each other/discuss answ	ers	[2 @ 1 = 2]
		(iv)	In m	of people to ask/many people park there iddle of national park so more likely to be used by to ept negative comment about other locations	ourists	[1]
		(v) Why: People would be better equipped to answer questions about time sactivities/what they liked				

Disadvantage: People are tired at end of a busy day/cannot be bothered to answer

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

Waited until people had enjoyed the day's activities

People in a rush to set off for home

questions

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Page 3	Mark Scheme: Teachers' version	Syllabus	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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- **(b) (i)** Bar graph completion need dividing line & labels (Yes/No) Allow tolerance from 72–75 or 22–28
 - (ii) Pie graph completion 1 mark (4 or 5 days, longer than 5 days) Shading/labels in key 1 mark Allow 1% tolerance
 - (iii) Insert figures for sightseeing: 5 in 51–65 age group column 11 in total column

 Both correct for 1 mark

[1]

(iv) Hypothesis is partially/generally true/Yes/age does influence activities – reserve mark 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/walking (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

[4]

- (c) (i) 1 Easy to get to
 - 2 Scenery
 - 3 Opportunity to do my favourite activity/Peace & quiet

[3 @ 1 = 3]

(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 far/not need to use public transport/safe and secure

NOT more visitors

Better toilet facilities: improved visitor comfort/more hygienic/less distance to facilities More cafes and refreshment facilities: improved visitor comfort/will not go hungry/rest & 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

NOT stop people getting lost

Improved footpath surfaces: easier/safer to walk on/less muddy/cleaner

[2 @ 1 = 2]

(iii) Yes true/most visitors do have a positive opinion – reserve mark

Because; visitors gave examples of activities (Table 3)/opportunity to do favourite activities

Visitors said what they liked (Table 4) – e.g. peace & quiet

Visitors gave positive ideas for improvements (Table 5) / no serious problem/complaint Most visitors had visited more than once and returned (Table 1)

Many visitors were staying more than one day (Table 2)

1 mark maximum on each Table

Responses only based on one day in one national park/visitors not asked direct question: Do you like/have a positive view of national parks? [3]

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[2]

Pa	ge 4	Mark Scheme: Teachers' version Syllabus	
		IGCSE – May/June 2010 0460	Par
(d)	W H	here do you live?/nationality here do you come from? ow far have you travelled to get to the national park? ow long have you spent travelling to the park?	Www.xtrapape
	` M T <u>y</u> 1	rouping data/categorise/results table tally chart ap / type of graph – bar/pie/divided rectangle/pictogram ype of map – choropleth/dot distribution/flow lines/desire lines mark for each of above ideas if appropriate to question in (i) ccept presentation ideas, even if question in (i) is wrong	
	N	OT questionnaire/tick boxes	[3]
			[Total: 30]
(a)	Wear Don't Wear Keep Don't Tell so Comp	do fieldwork/check conditions if river is in flood/deep/fast-flowing strong shoes/wellingtons to protect feet do fieldwork alone – at least two preferably three people/group waterproofs to keep warm/protective clothing/light clothes which will a look out for dangerous animals do fieldwork if river is badly polluted/don't drink water/Veil's disease meone where you are going/take a mobile phone for emergency lete in daylight/before it gets dark e slippery rocks/bank	•
	NOT o	don't run around/push each other in/swim in river	[3 @ 1 = 3]
(b)	Ti R	easure section along river me floats over measured section epeat timing exercise at points 1, 2 and 3 across river alculate surface velocity: <u>distance</u> time	[3]
	E	est rule/ruler on river bed - NOT 'in river' nsure rule is upright/vertical ake reading of water surface on rule/measure part of stick which is	wet
	Lo M	ay suggest string & weigh & tape measure ower string to river bed ark / observe water level on string easure wet section	
		OT repetition of measuring across river o credit for equipment – must describe its use	[3]
	V A Ve po V	elocity is greater near the outer bank of the meander/sample point 3 elocity decreases towards the inner bank/sample point 1 lternative to above ideas: velocity varies at different points/the elocity across river/velocity increases from sample bint 1 to point 3 – NOT wording of hypothesis elocity is greater where river is deeper/least where river is shallow redit 1 mark (not reserve) for two comparative figures from 18.	re are variations in

Credit 1 mark (not reserve) for two comparative figures from 18, 41, 72 or difference

between them

No hypothesis mark

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Page 5	Mark Scheme: Teachers' version	Syllabus	
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Measure - floa - stro Route ta Floats a Too few Only tak	easuring surface velocity ements could be affected by external influences such ts get stuck on vegetation ng wind may interfere with movement of float aken by floats is unpredictable Il move into main current of river, so not really testin sampling points ting one measurement at each sampling point/need in positioning of sample points/not equal distances appreasurement.	g velocity across a meander to do more	age.
NOT hu	man error weaknesses such as inaccurate timing/dis	stance measurement [3 @ 1 = 3	[]
Mus Sta Pro Pro Rec	flow meter on the bed of river/into river st be held vertically and downstream or to the side of the flowmeter peller must be facing upstream peller spins/moves cord digital reading/display shows velocity e several readings and calculate average		
NO	T take measurements at different points in river	[3	3]
	npletion of 20cm per second isoline us 1 mark for each error	[2	·]
(iii) Sha	nding on diagram the area where velocity is greater t	than 40cm per second [1]
Sup But acro Her Sup The	ee/partly agree with hypothesis – reserve mark oporting data – two current measurements: e.g. 40-3 where current is strongest there is exception/hyposs meander e the greatest velocity is at about 1/3 of depth/just upporting data – two current measurements: e.g. 60-6 in velocity does decrease below 1/3 of depth w two marks for comparative figures (not reserve)	othesis doesn't apply everywhere nder water surface	
`´ Vel	face velocity is affected by friction with atmosphere ocity near bed/banks of channel reduced by friction vatest velocity is where current is strongest/river is defined to the contract of th		
NO	T 'velocity is greater on outside'	[2	2]
Greater	velocity slightly beneath surface/at surface velocity where river is deeper reduces near bed/banks		

Velocity faster in middle of channel on a straight section Velocity decreases more evenly towards bed/banks on straight section

1 mark reserve for similarity/difference

[Total: 30]

[4]