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.

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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 1

Illogical order of questions/age question is last

Answers don't need to refer to specific questions in questionnaire

NOT question is unacceptable - must say why

NOT questionnaire is too short

[3 @ 1 = 3]

(ii) Introduction explains who is doing questionnaire & why/friendly

Positive introduction - won't take up much time

Qs 1, 2 & 3 ask for precise/quick responses/choices for people to tick

Qs 4 & 5 are open/positive/ask for opinions

Thanks at the end

Gender information is recorded without questioning

Questions are relevant to hypotheses

Answers are easy to collate/graph

Can credit opposites to (i)

Answers don't need to refer to specific questions in questionnaire

NOT clear/easy to understand – must say why

[2 @ 1 =2]

(iii) Simple to organise/clear rationale

Reduces bias in sample/fair test

Respondents cannot influence each other/discuss answers

[2 @ 1 = 2]

[1 + 1 = 2]

(iv) Lots of people to ask/many people park there

In middle of national park so more likely to be used by tourists

Accept negative comment about other locations

[1]

(v) Why: People would be better equipped to answer questions about time spent in park/activities/what they liked

Waited until people had enjoyed the day's activities

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

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(b) (i) Bar graph completion – need dividing line & labels (Yes/No) Allow tolerance from 72–75 or 22–28

[1]

(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:

Both correct for 1 mark

5 in 51–65 age group column 11 in total column

[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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Page 4			Mark Scheme: Teachers' version S		Syllabus	Paper
			IGCSE – I	May/June 2010	0460	43
(d)	(i)	(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?				[1
	(ii)	Map Type 1 ma	e of map – choropleth/d ark for each of above id	esults table tally chart ie/divided rectangle/picto lot distribution/flow lines/ eas if appropriate to que even if question in (i) is v	desire lines estion in (i)	
		NOT	Γ questionnaire/tick box	es		[3
						[Total: 30
(a)	Wea Don Wea Kee Don Tell Con	ar stron't do ar wa ep a lo a't do some mplete	ong shoes/wellingtons of fieldwork alone – at lea aterproofs to keep warm ook out for dangerous a fieldwork if river is bad	ast two preferably three partition preferably three partition protective clothing/light animals by polluted/don't drink water ing/take a mobile phone	people/group clothes which will dry ater/Veil's disease	
	NO	T don	n't run around/push eac	h other in/swim in river		[3 @ 1 = 3
(b)	(i)	Time Repe	asure section along rive e floats over measured eat timing exercise at p culate surface velocity:		iver	[3
	(ii)	Ensu	t rule/ruler on river bed ure rule is upright/vertic e reading of water surfa		of stick which is wet	
		Lowe Mark	v suggest string & weigh ver string to river bed k / observe water level vasure wet section			
			Γ repetition of measuring redit for equipment – m	_		[3
	(iii)	Velo Alter veloc point	ocity decreases towards rnative to above ideas ocity across river/velocity at 1 to point 3 – NOT wo	outer bank of the meand the inner bank/sample particles: velocity varies at dif- y increases from sample ording of hypothesis wer is deeper/least where	point 1 ferent points/there are	variations i

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between them No hypothesis mark

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

[2]

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Meas - f Route Float Too f Only Rance	measuring surface velocity surements could be affected by external influences surfloats get stuck on vegetation strong wind may interfere with movement of float the taken by floats is unpredictable ts all move into main current of river, so not really test few sampling points taking one measurement at each sampling point/needom positioning of sample points/not equal distances Thuman error weaknesses such as inaccurate timing/or	ing velocity across a i d to do more apart	
, , , , , , , , , , , , , , , , , , ,	Put flow meter on the bed of river/into river Must be held vertically Stand downstream or to the side of the flowmeter Propeller must be facing upstream Propeller spins/moves Record digital reading/display shows velocity Take several readings and calculate average		
(ii) (NOT take measurements at different points in river Completion of 20cm per second isoline		[3
ľ	Minus 1 mark for each error		[2
(iii) S	Shading on diagram the area where velocity is greate	r than 40cm per seco	nd [ˈ
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Agree/partly agree with hypothesis – reserve mark Supporting data – two current measurements: e.g. 40 But where current is strongest there is exception/hypacross meander Here the greatest velocity is at about 1/3 of depth/just Supporting data – two current measurements: e.g. 60 Then velocity does decrease below 1/3 of depth Allow two marks for comparative figures (not reserve)	pothesis doesn't appl under water surface -68-70 cm per second	ly everywher
(Surface velocity is affected by friction with atmosphere Velocity near bed/banks of channel reduced by friction Greatest velocity is where current is strongest/river is NOT 'velocity is greater on outside'	n with channel	rgy [2
'	1301 Volodity is greater on outside		L ²
Grea	larities: Iter velocity slightly beneath surface/at surface Iter velocity where river is deeper City 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

[4]

[Total: 30]